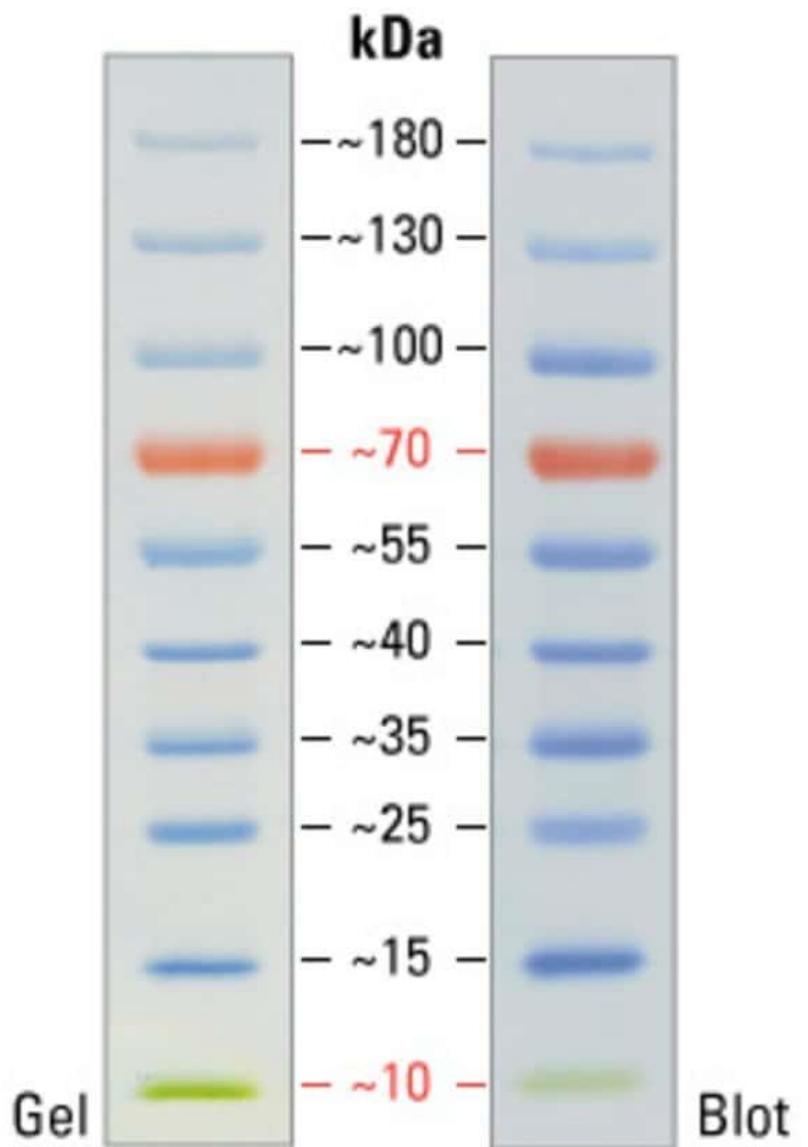


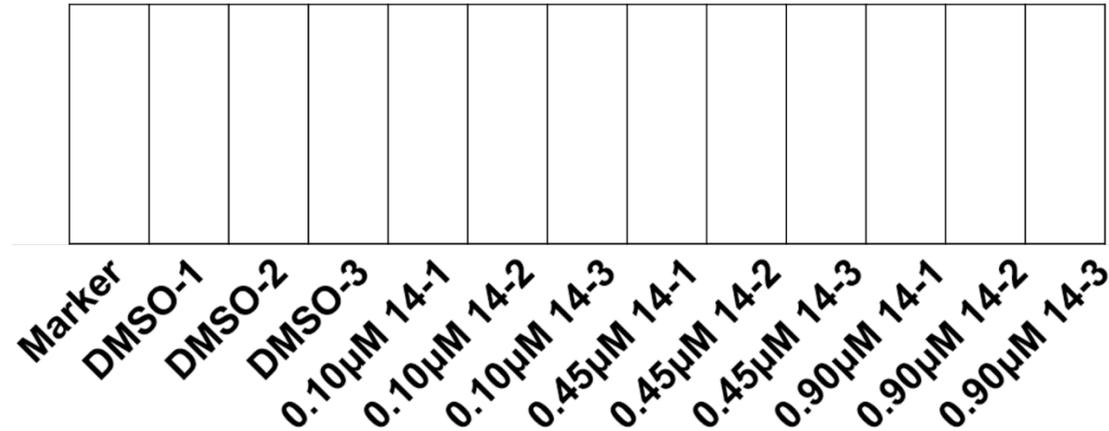
# Marker (Thermo 26616)



# Gel lane sequence

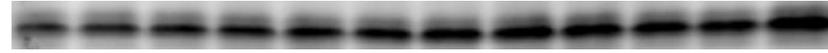
After treatment with DMSO and **14**, the HGC-27 cells were lysed with RIPA. Three triplicated DMSO samples were named as DMSO-1, DMSO-2, DMSO-3. **14** treated samples were named as 0.10 $\mu$ M **14**-1, 0.10 $\mu$ M **14**-2, 0.10 $\mu$ M **14**-3, 0.45 $\mu$ M **14**-1, 0.45 $\mu$ M **14**-2, 0.45 $\mu$ M **14**-3, 0.90 $\mu$ M **14**-1, 0.90 $\mu$ M **14**-2 and 0.90 $\mu$ M **14**-3.

All gels share the same lane sequence, as shown below

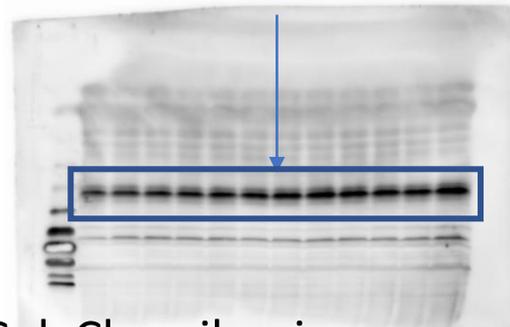


After membrane transferred, We cut the gel into two parts by molecular weight, the first half part(**IOP Gel**) was incubated with IOP (Interest Of Protein) primary antibody, the second half part(**ICP Gel**) was incubated with ICP(Internal Control Protein) primary antibody (GAPDH, Tubulin, Calnexin). Then two parts of gel were incubated with secondary antibody after wash, then analysis by ChemiDoc<sup>TM</sup> XRS+(Bio-Rad).

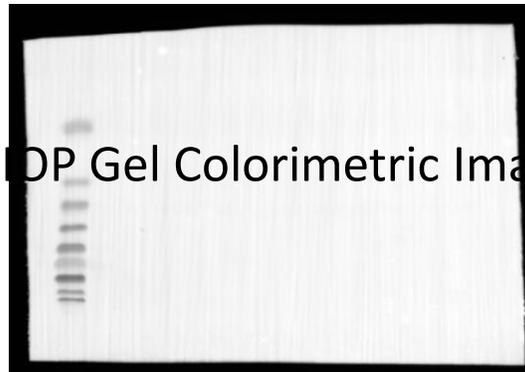
# Figure-1C Cleaved-caspase-3 (19kda)



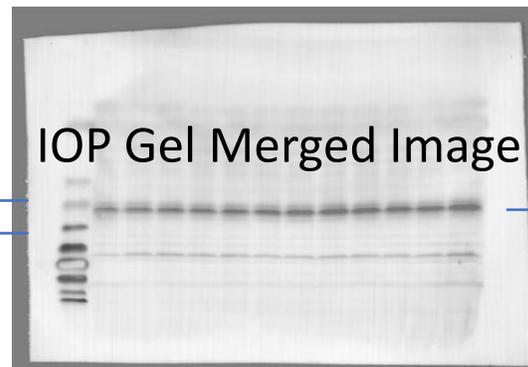
Cleaved-caspase-3 blot image presented in Figure 1C of manuscript



IOP Gel Chemiluminescence Image



IOP Gel Colorimetric Image



15kda Marker  
25kda Marker

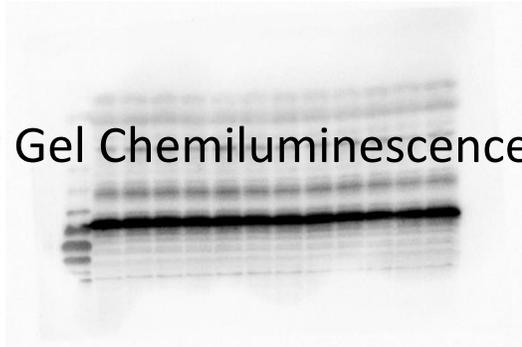
IOP Gel Merged Image

Cleaved-caspase-3

# Figure 1C Cleaved caspase-3-Tubulin(50kda)

Cleaved-caspase-3 control blot image

ICP Gel Chemiluminescence Image

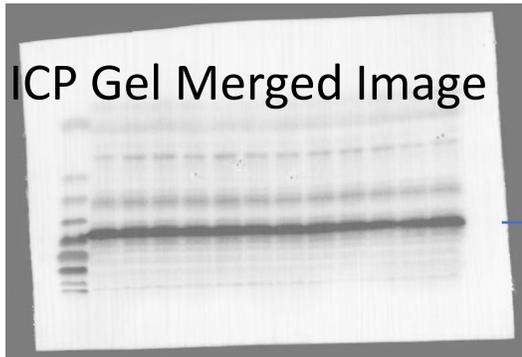


ICP Gel Colorimetric Image



ICP Gel Merged Image

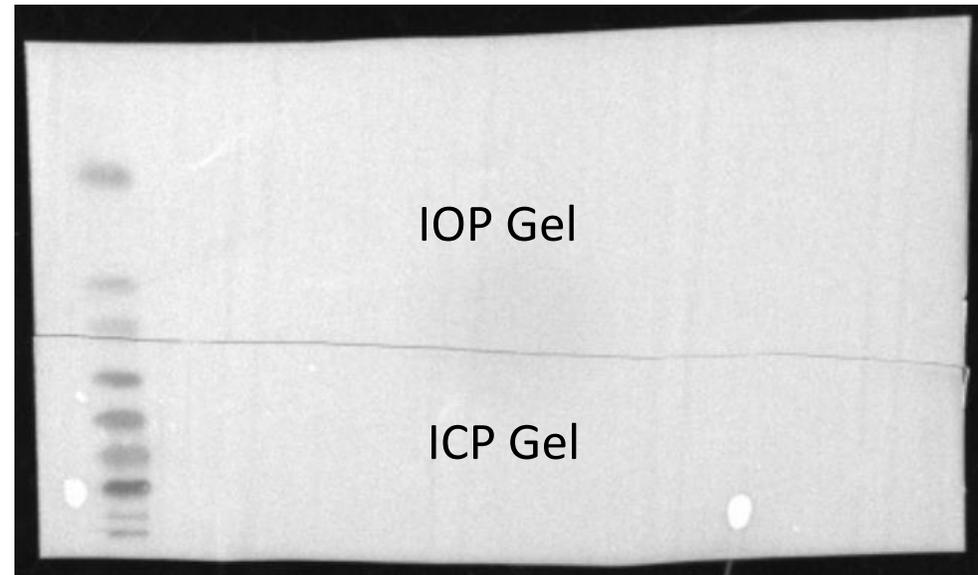
40kda Marker  
70kda Marker



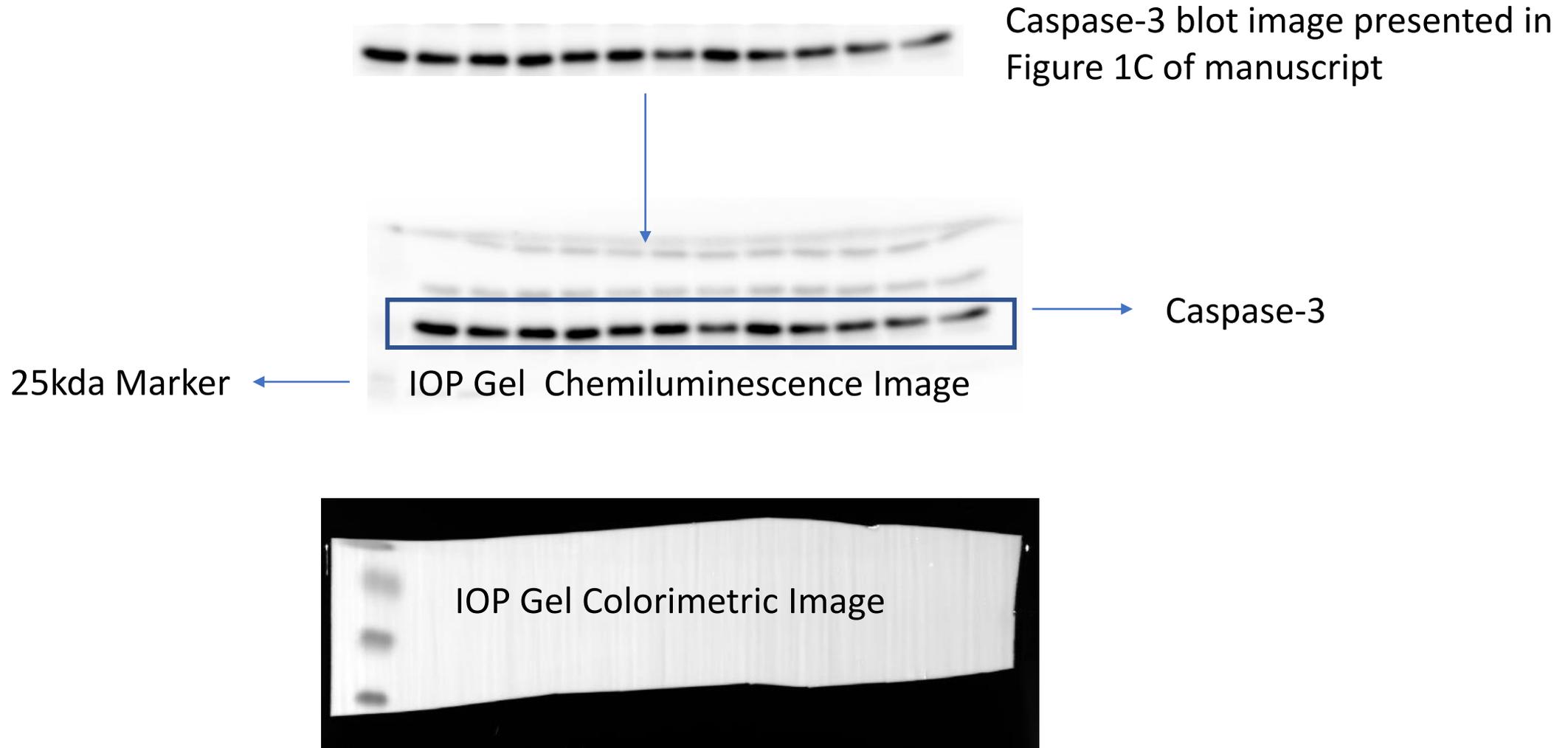
Tubulin



**Figure 1C Cleaved-caspase-3 merged gel Colorimetric image**



# Figure 1C Caspase-3 (19kda)



# Figure 1C Caspase-3-Calnexin (90kda)

Caspase-3 control blot image

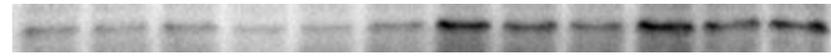


ICP Gel Chemiluminescence Image

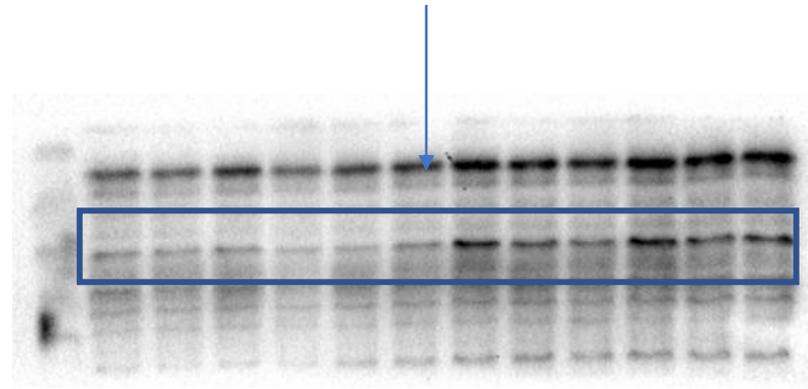


ICP Gel Colorimetric Image

# Figure 1C Cleaved-PARP (116kda)



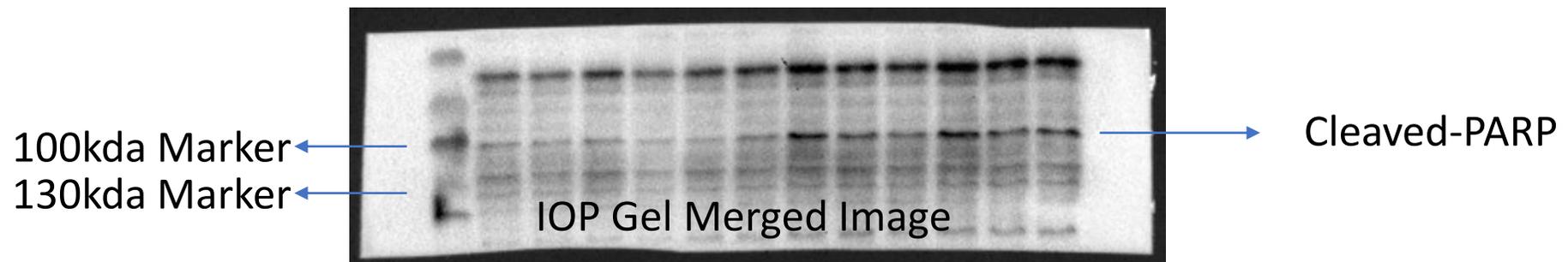
Cleaved-PARP blot image presented in Figure 1C of manuscript



IOP Gel Chemiluminescence Image



IOP Gel Colorimetric Image



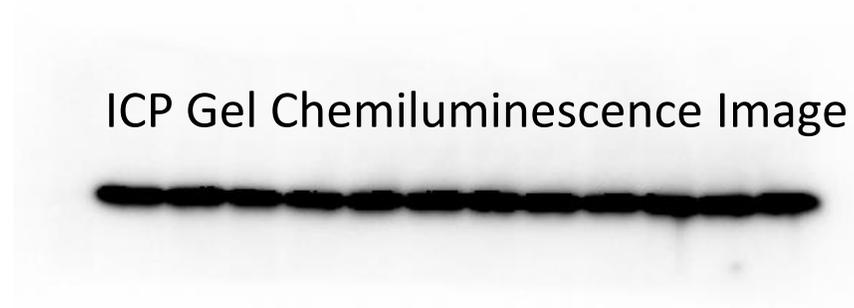
100kda Marker

130kda Marker

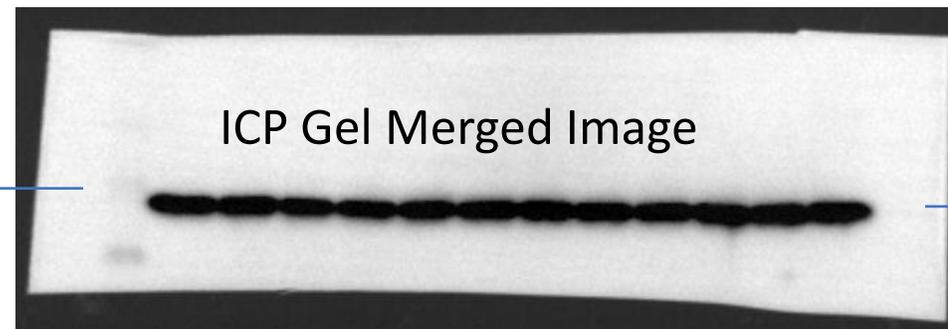
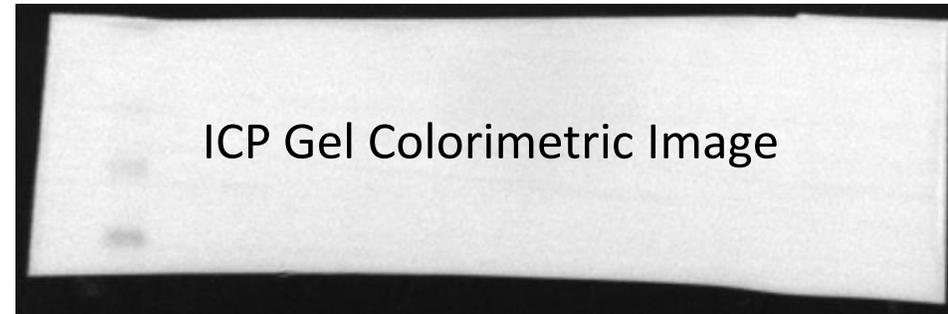
IOP Gel Merged Image

Cleaved-PARP

# Figure 1C Cleaved-PARP-GAPDH (37kda)



Cleaved-PARP control blot image



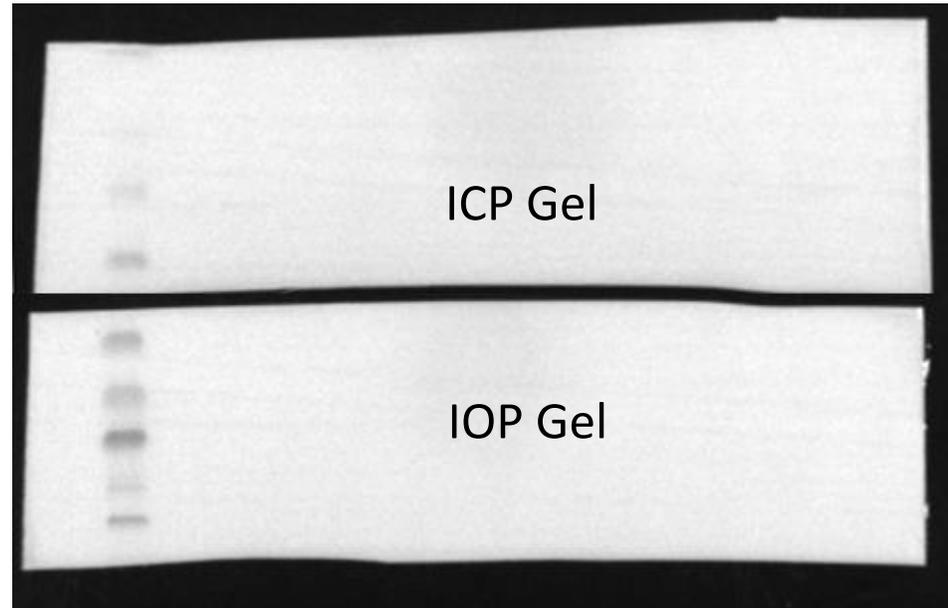
35kda Marker



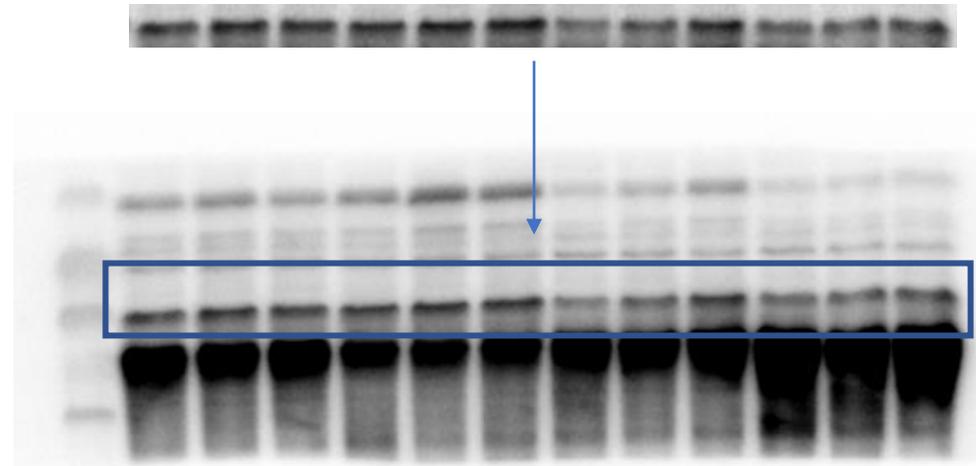
GAPDH



**Figure 1C Cleaved-PARP merged gel Colorimetric image**

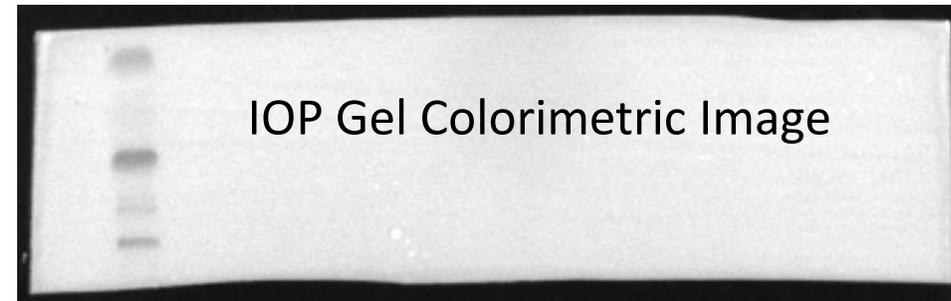


# Figure 1C PARP (116kda)



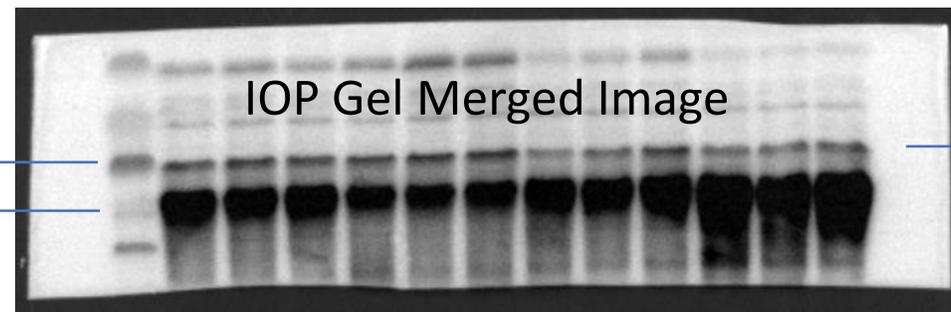
IOP Gel Chemiluminescence Image

PARP blot image presented in Figure 1C of manuscript



IOP Gel Colorimetric Image

In this gel, We incubated with c-PARP primary antibody first and analysis, after that we washed the IOP gel with strippingbuffer (Solarbio, SW3020), then incubated with PARP primary antibody and analysis.



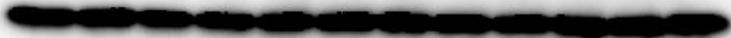
100kda Marker  
130kda Marker

IOP Gel Merged Image

PARP

# Figure 1C PARP-GAPDH (37kda)

ICP Gel Chemiluminescence Image



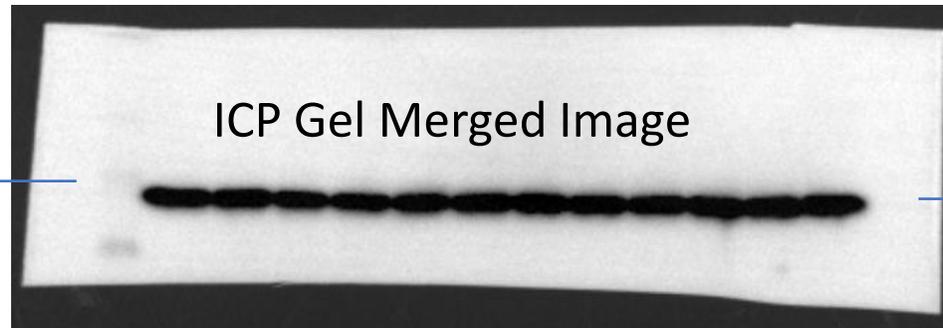
PARP control blot image



ICP Gel Colorimetric Image

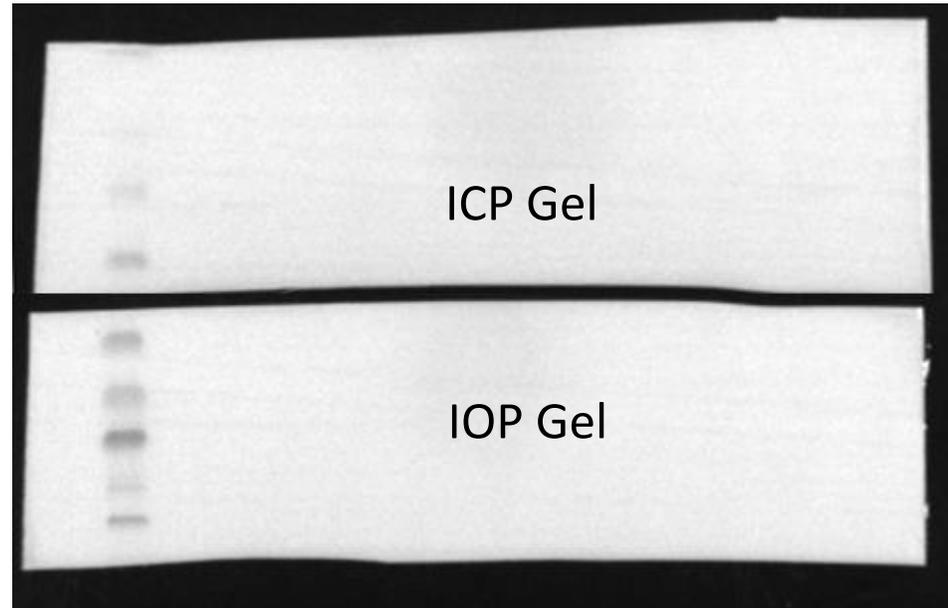
ICP Gel Merged Image

35kda Marker



GAPDH

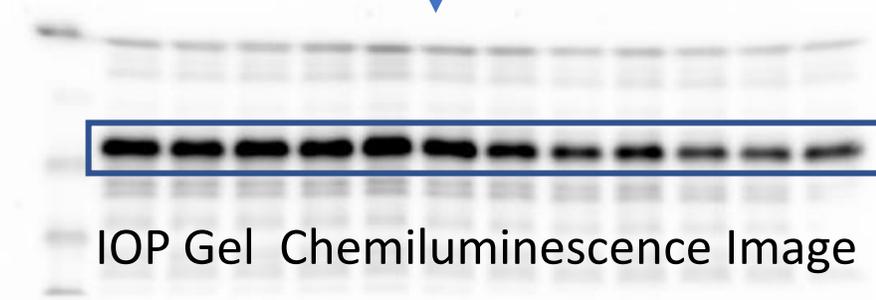
**Figure 1C PARP merged gel Colorimetric image**



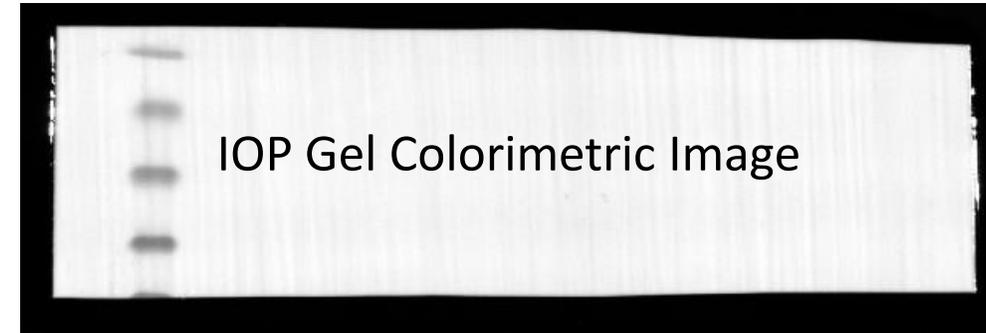
# Figure 2C CDK2 (33kda)



CDK2 blot image presented in Figure 2C of manuscript



IOP Gel Chemiluminescence Image



IOP Gel Colorimetric Image

25kda Marker  
35kda Marker

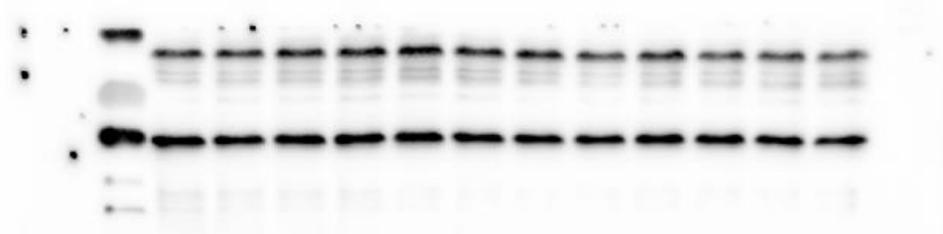


IOP Gel Merged Image

CDK2

# Figure 2C CDK2-Calnexin (90kda)

ICP Gel Chemiluminescence Image



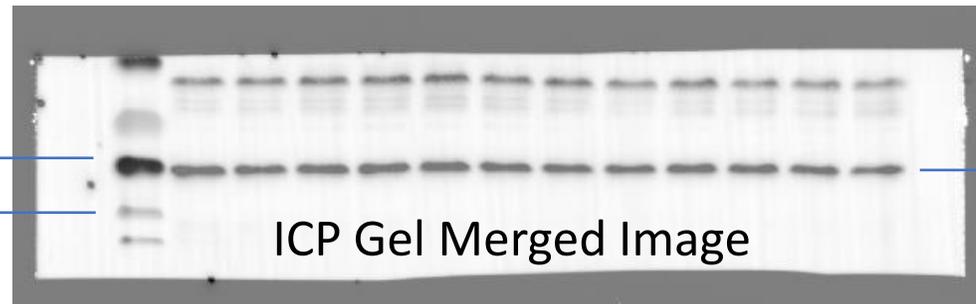
CDK2 control blot image



ICP Gel Colorimetric Image

100kda Marker

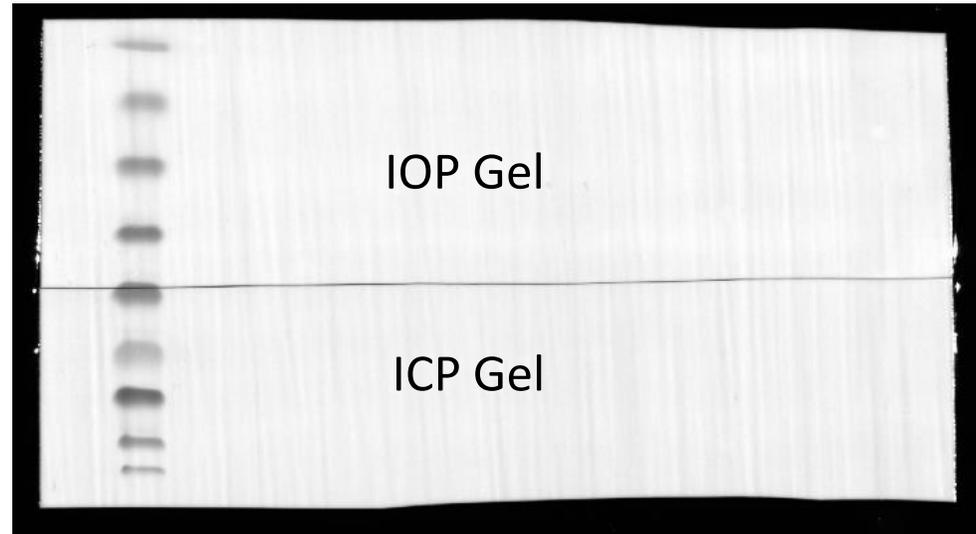
130kda Marker



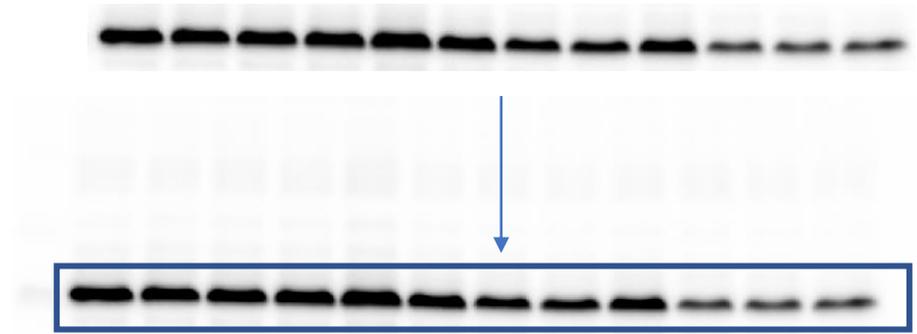
ICP Gel Merged Image

Calnexin

**Figure 2C CDK2 merged gel Colorimetric image**



# Figure 2C Cyclin A (56kda)



Cyclin A blot image presented in Figure 2C of manuscript

IOP Gel Chemiluminescence Image



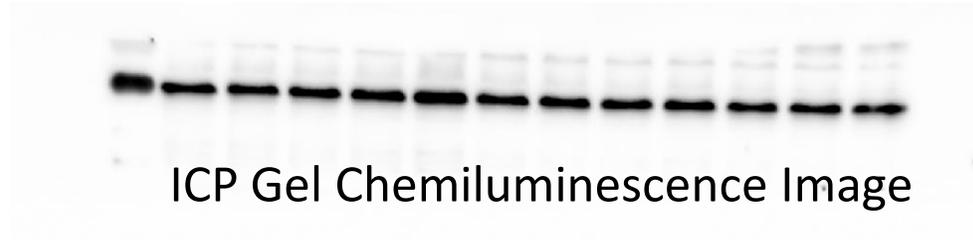
IOP Gel Colorimetric Image



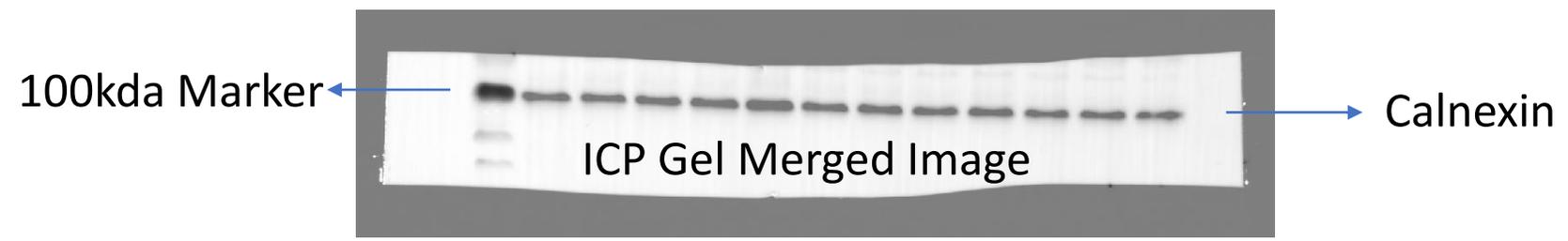
55kda Marker

Cyclin A

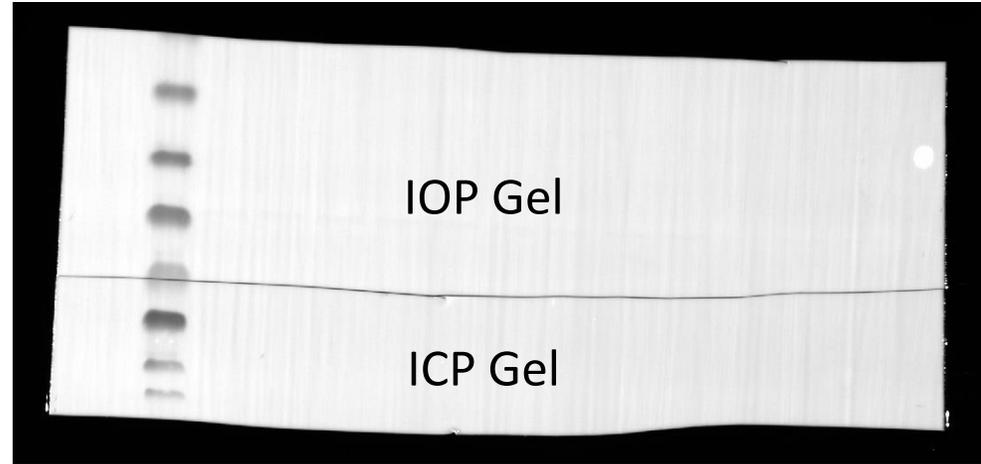
# Figure 2C Cyclin A-Calnexin (90kda)



Cyclin A control blot image

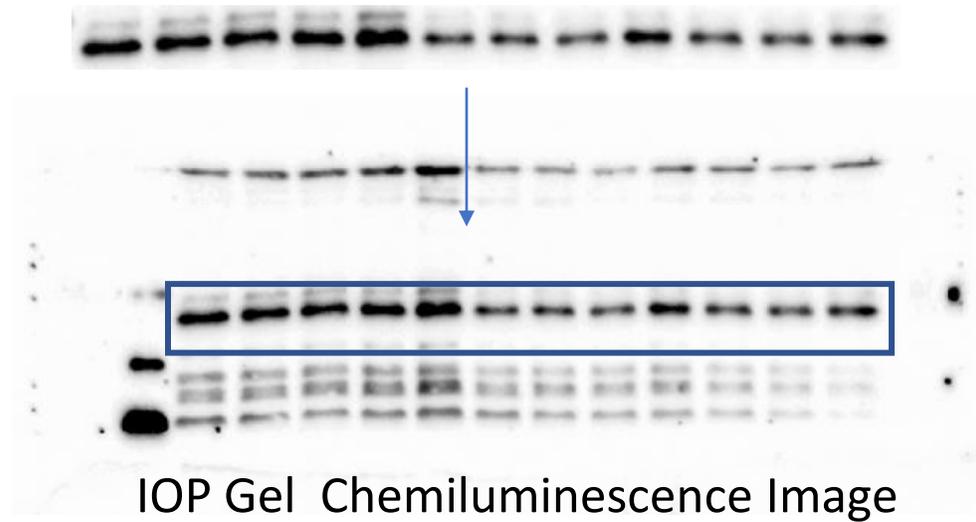


**Figure 2C Cyclin A merged gel Colorimetric image**

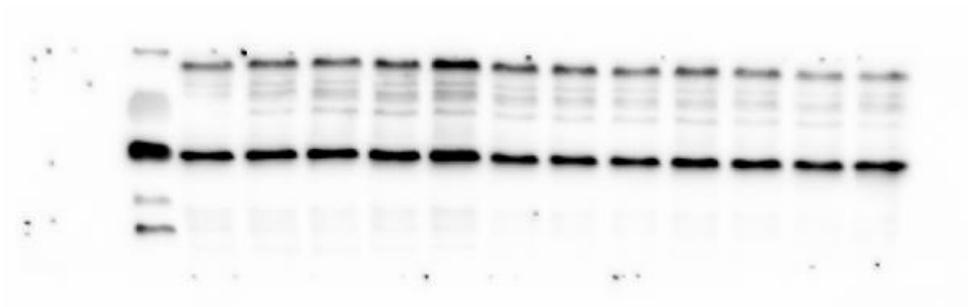


# Figure 2C Cyclin D (34kda)

Cyclin D blot image presented in Figure 2C of manuscript



# Figure 2C Cyclin D-Calnexin (90kda)



Cyclin D control blot image

ICP Gel Chemiluminescence Image



ICP Gel Colorimetric Image

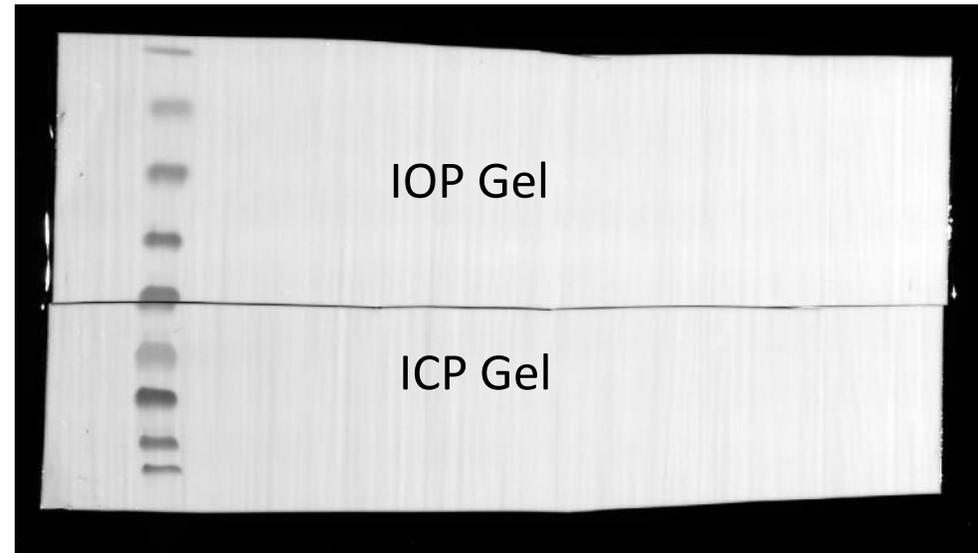
100kda Marker ←



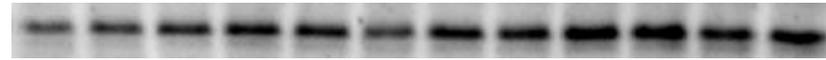
ICP Gel Merged Image

→ Calnexin

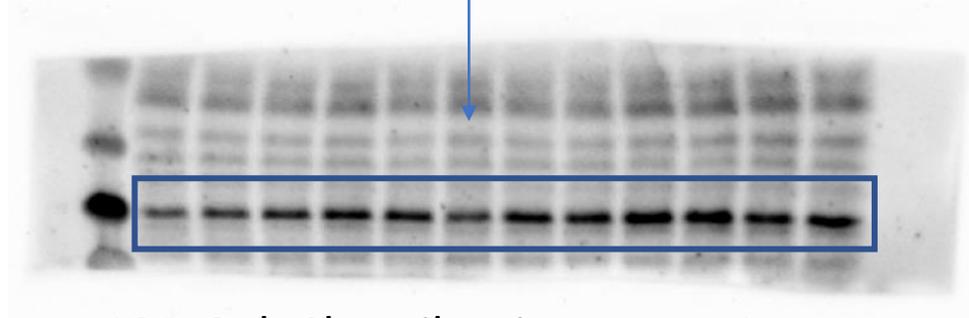
**Figure 2C Cyclin D merged gel Colorimetric image**



# Figure 2C p53 (53kda)



p53 blot image presented in Figure 2C of manuscript



IOP Gel Chemiluminescence Image



IOP Gel Colorimetric Image



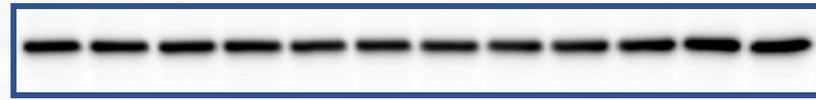
55kda Marker

p53

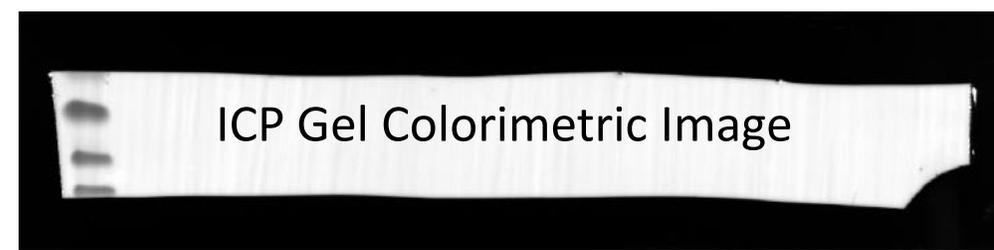
# Figure 2C p53-Calnexin (90kda)



P53 control blot image presented in Figure 2C of manuscript



ICP Gel Chemiluminescence Image



ICP Gel Colorimetric Image

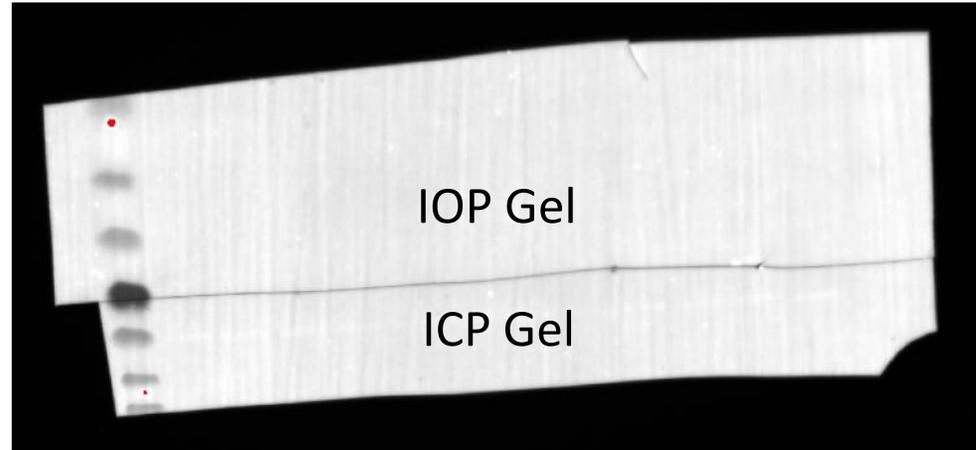


100kda Marker

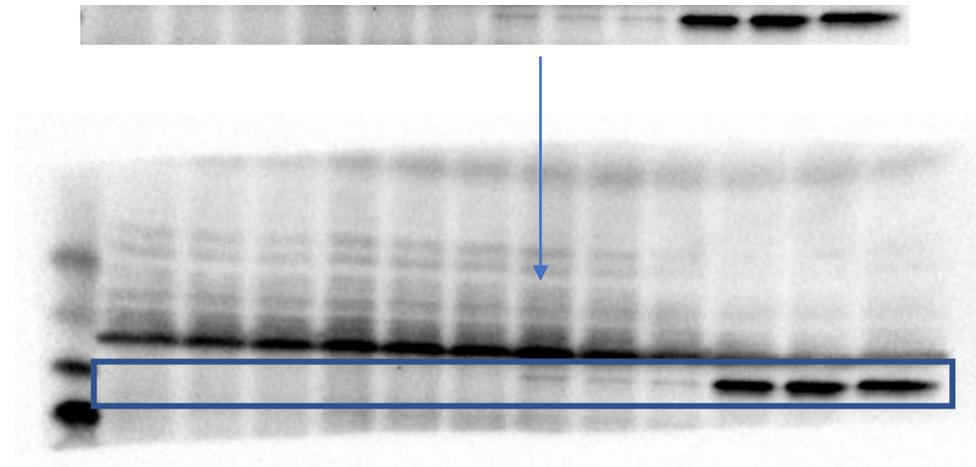
Calnexin

ICP Gel Merged Image

**Figure 2C p53 merged gel Colorimetric image**



# Figure 4A p-Erk1/2 (42/44kda)

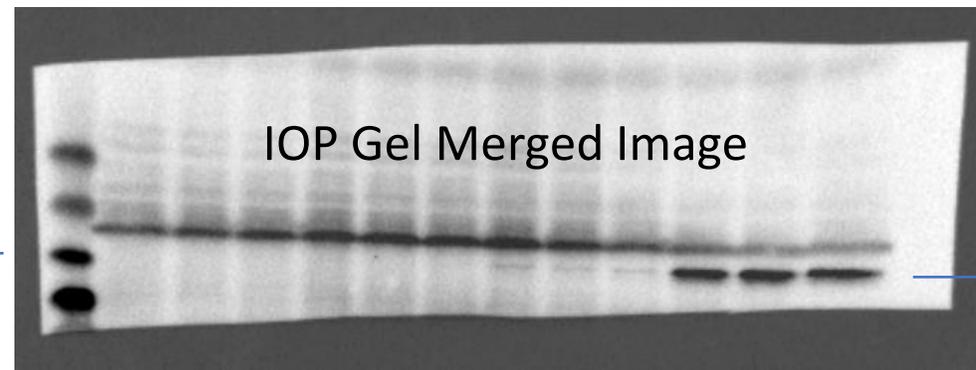


p-Erk1/2 blot image presented in Figure 4A of manuscript

IOP Gel Chemiluminescence Image



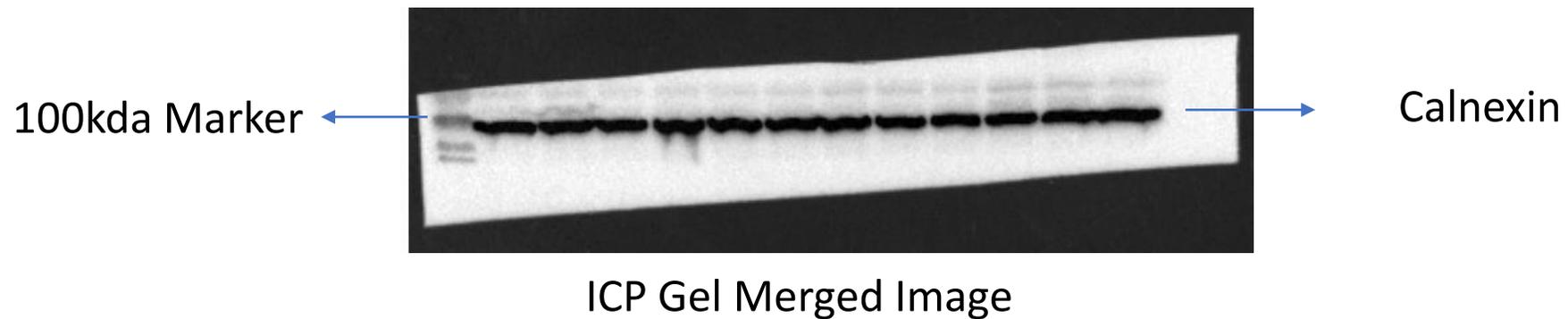
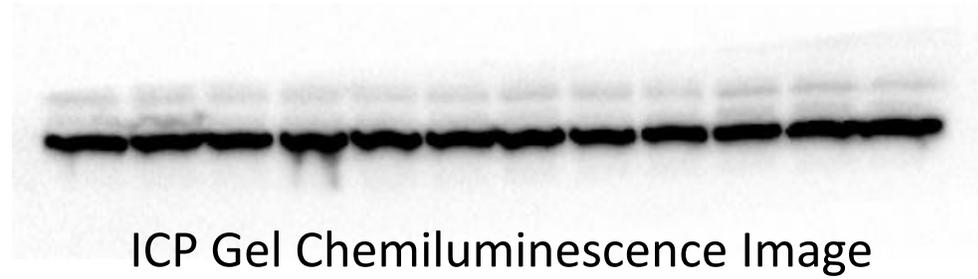
IOP Gel Colorimetric Image



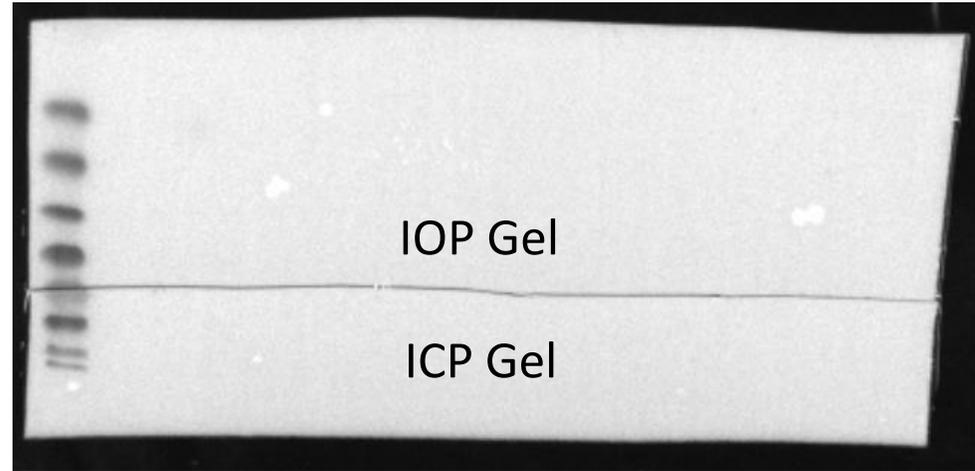
40kda Marker

p-Erk1/2

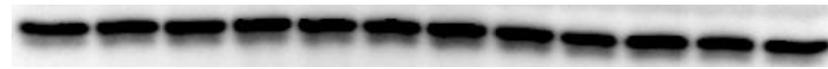
# Figure 4A p-Erk1/2-Calnexin (90kda)



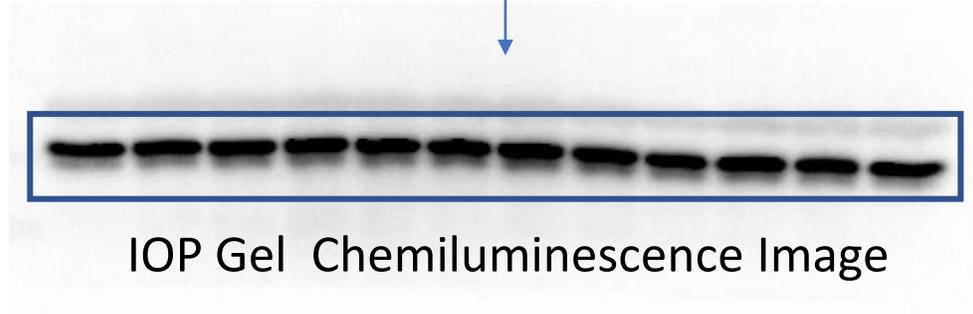
**Figure 4A p-Erk1/2 merged gel Colorimetric image**



# Figure 4A Erk1/2 (42/44kda)



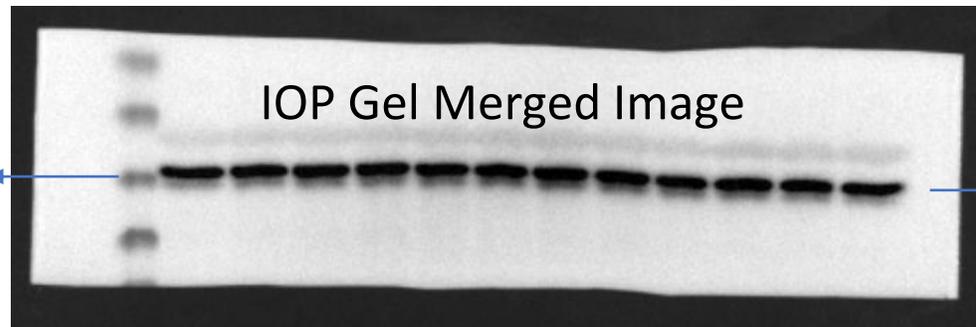
Erk1/2 blot image presented in Figure 4A of manuscript



IOP Gel Chemiluminescence Image



IOP Gel Colorimetric Image

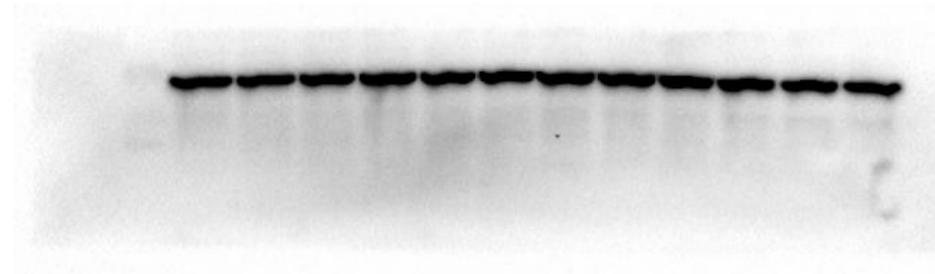


IOP Gel Merged Image

40kda Marker

Erk1/2

# Figure 4A Erk1/2-Calnexin (90kda)



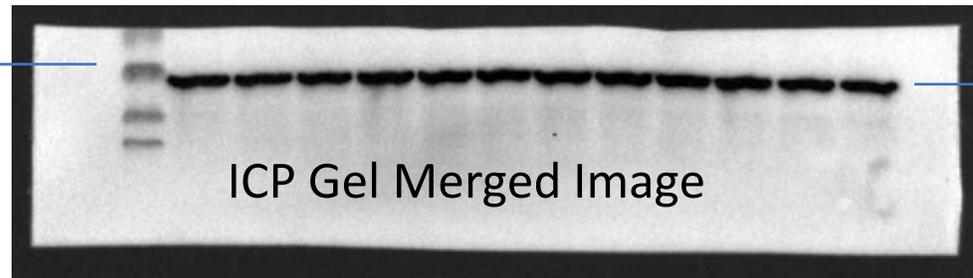
Erk1/2 control blot image

ICP Gel Chemiluminescence Image



ICP Gel Colorimetric Image

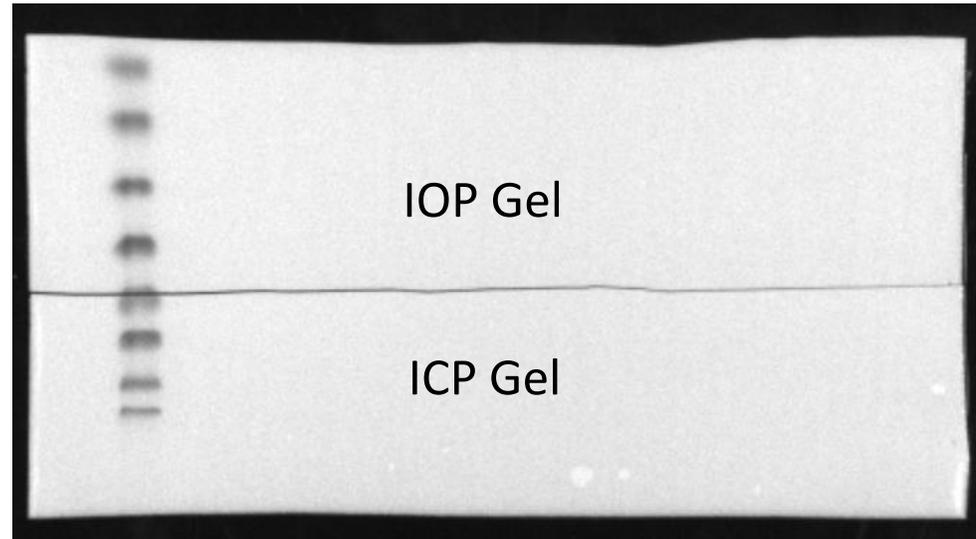
100kda Marker



Calnexin

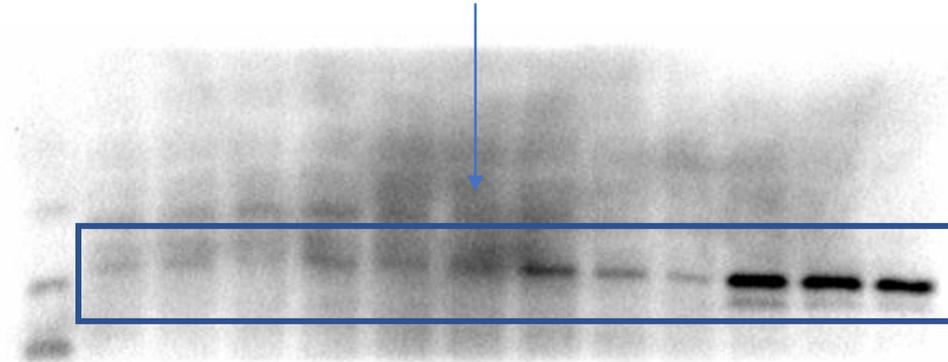
ICP Gel Merged Image

**Figure 4A Erk1/2 merged gel Colorimetric image**

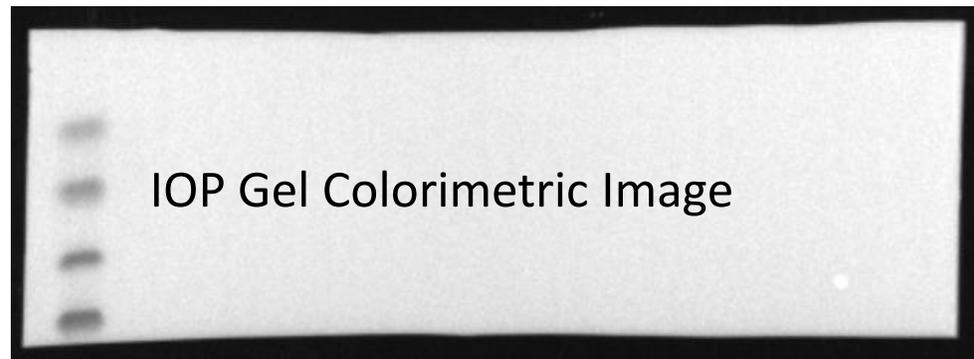


# Figure 4A p-p38 (43kda)

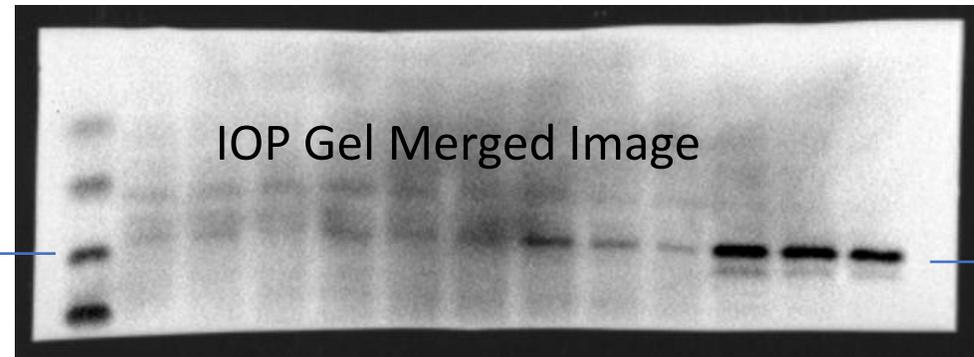
p-p38 blot image presented in Figure 4A of manuscript



IOP Gel Chemiluminescence Image



IOP Gel Colorimetric Image

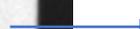


IOP Gel Merged Image

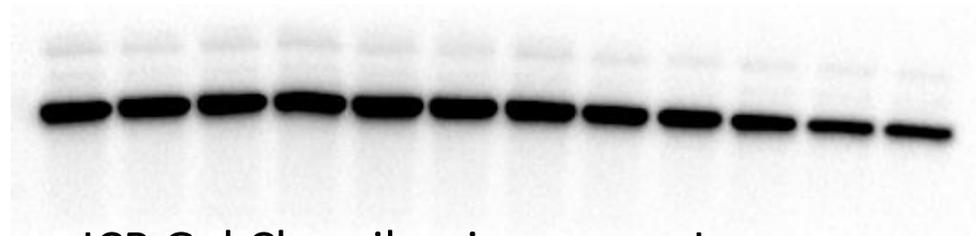
40kda Marker



p-p38



# Figure 4A p-p38-Calnexin (90kda)

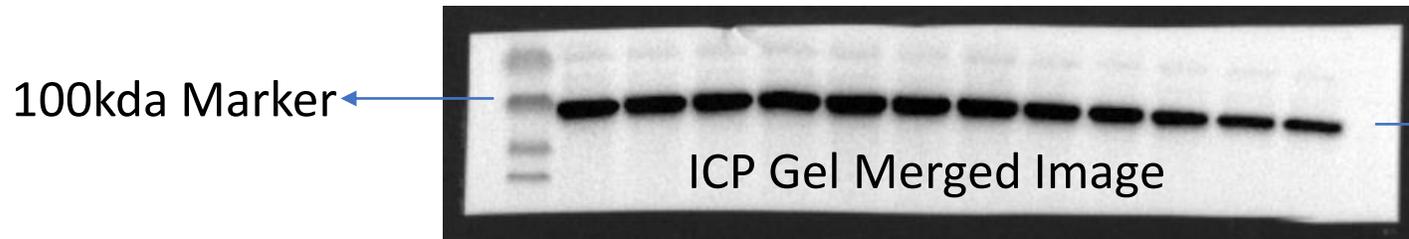


p-p38 control blot image

ICP Gel Chemiluminescence Image



ICP Gel Colorimetric Image

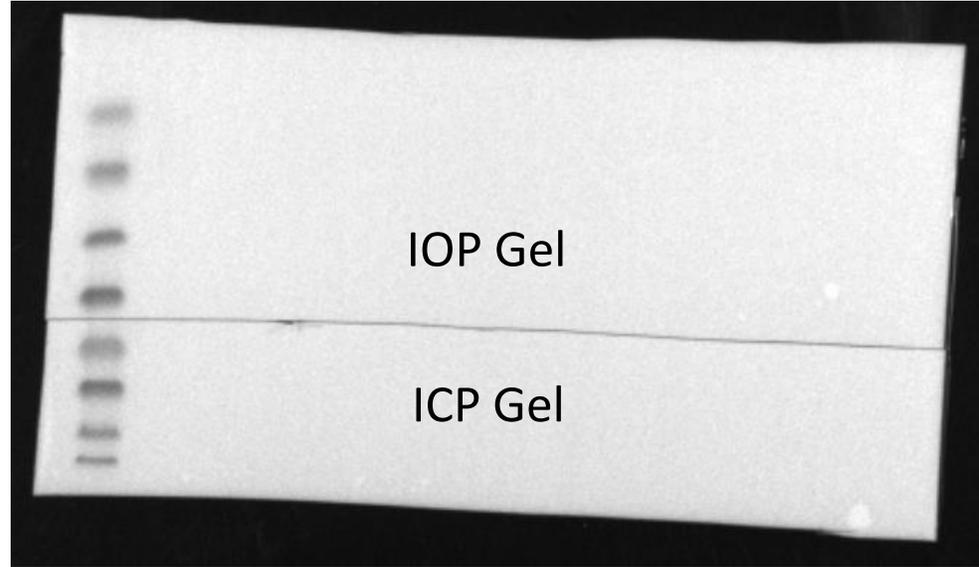


100kda Marker

ICP Gel Merged Image

Calnexin

**Figure 4A p-p38 merged gel Colorimetric image**

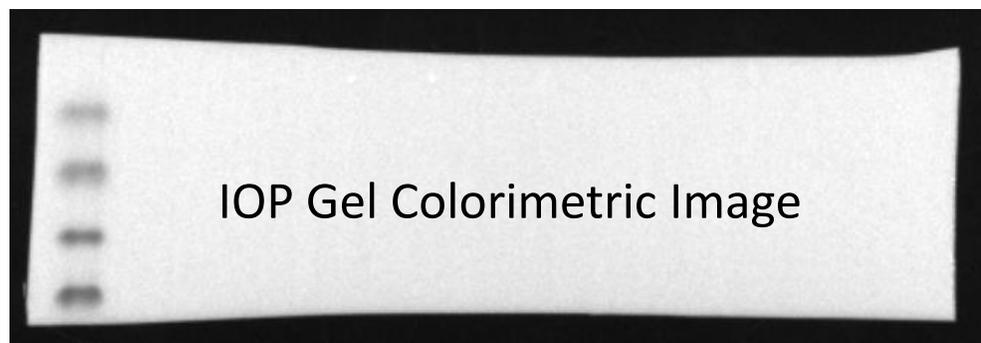


# Figure 4A p38 (40kda)

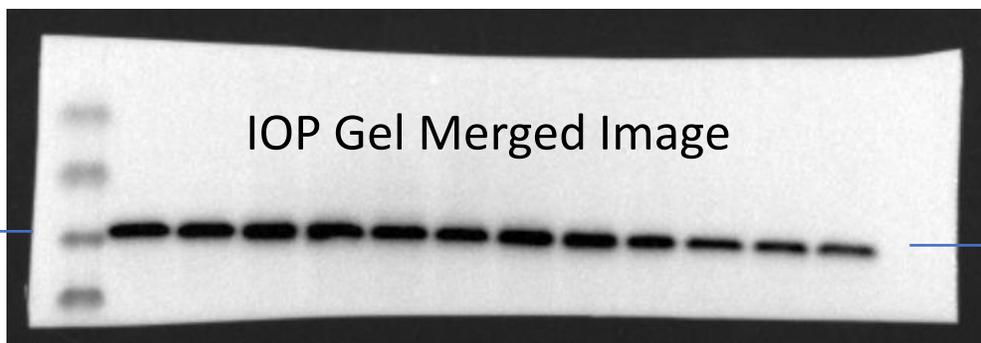
p38 blot image presented in Figure 4A of manuscript



IOP Gel Chemiluminescence Image



IOP Gel Colorimetric Image



IOP Gel Merged Image

40kda Marker



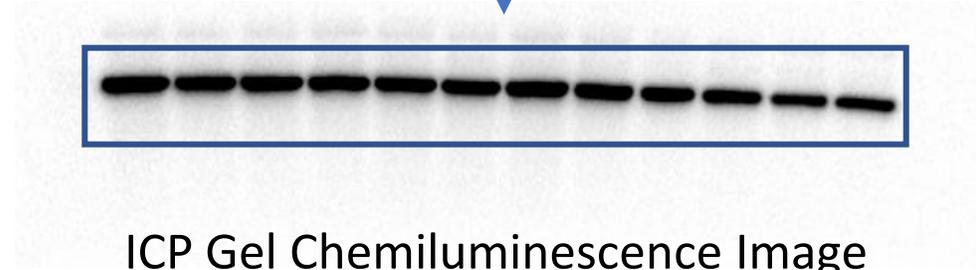
p38



# Figure 4A p38-Calnexin (90kda)



p38 control blot image presented in Figure 2C of manuscript

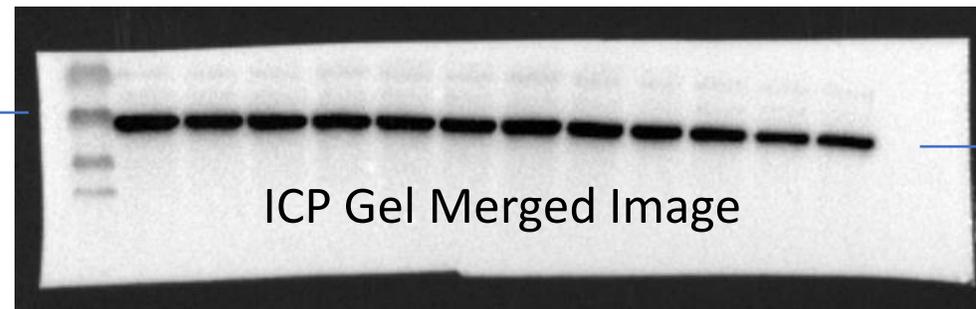


ICP Gel Chemiluminescence Image



ICP Gel Colorimetric Image

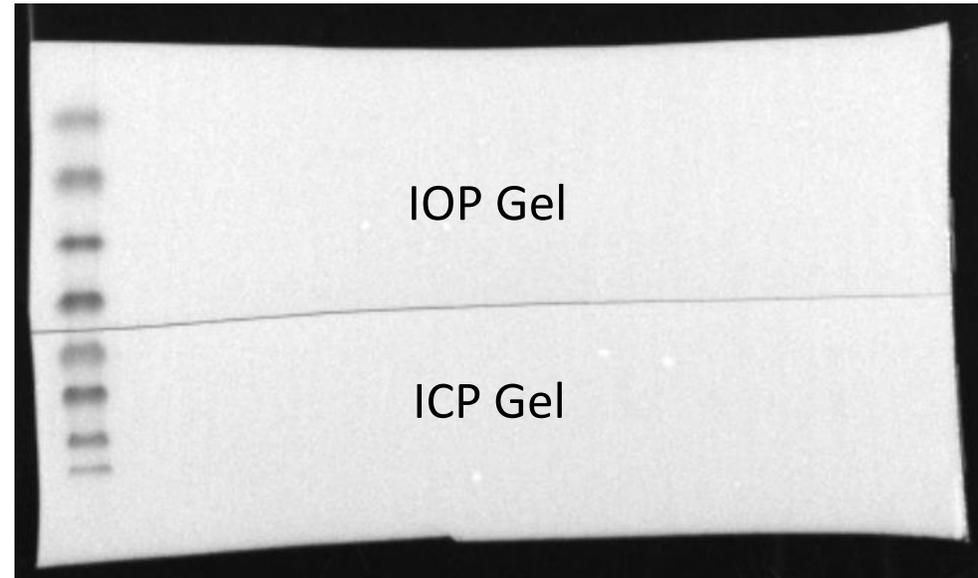
100kda Marker ←



ICP Gel Merged Image

→ Calnexin

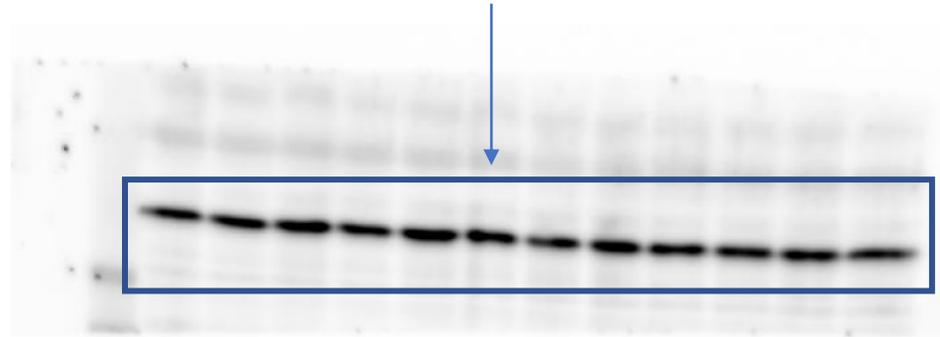
**Figure 4A p38 merged gel Colorimetric image**



# Figure S6 Bax (21kda)



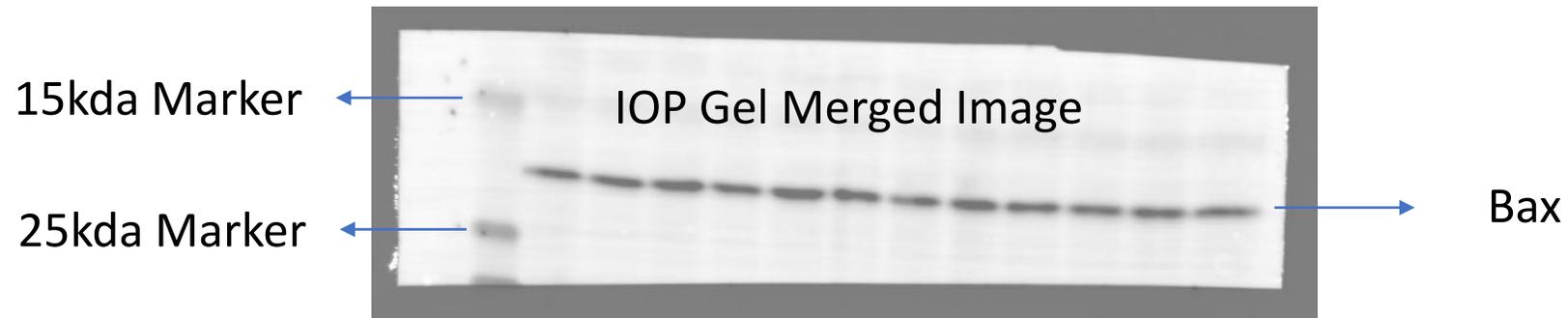
Bax blot image presented in Figure S6 of manuscript



IOP Gel Chemiluminescence Image



IOP Gel Colorimetric Image



15kda Marker

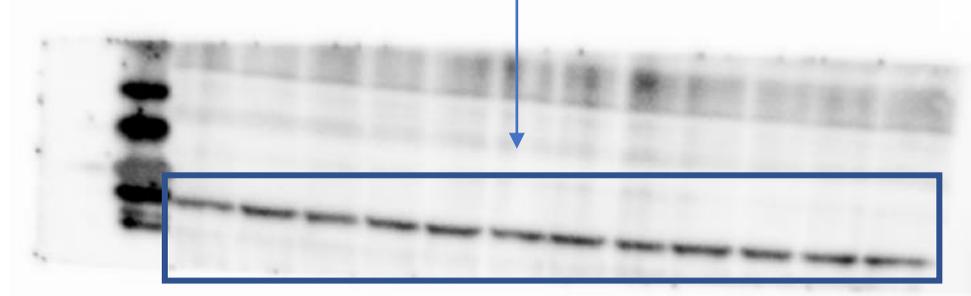
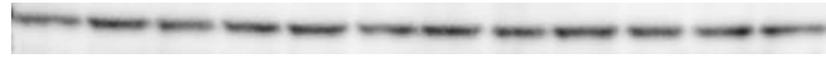
25kda Marker

IOP Gel Merged Image

Bax

# Figure S6 Bax-Calnexin (90kda)

Bax control blot image presented in Figure S6 of manuscript



ICP Gel Chemiluminescence Image



ICP Gel Colorimetric Image

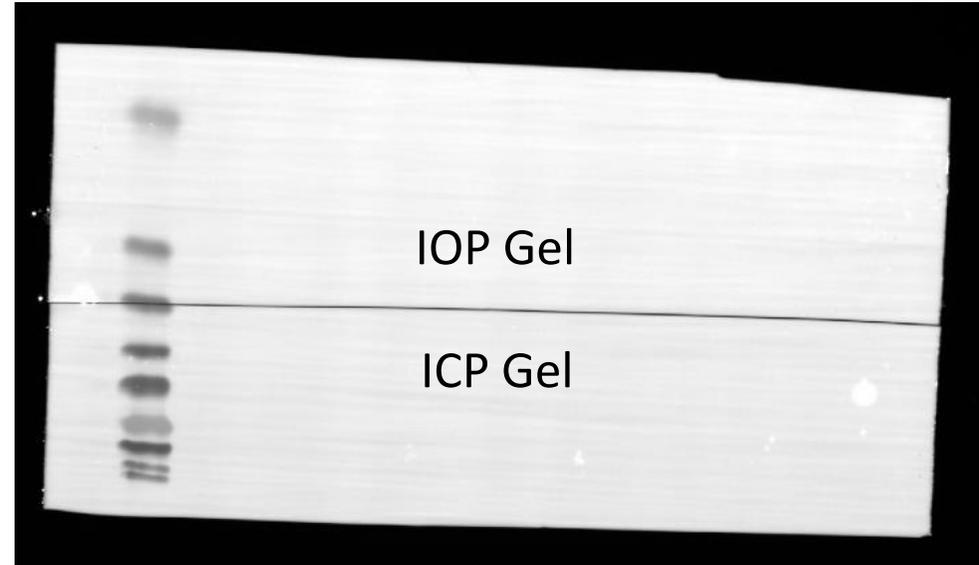


100kda Marker

ICP Gel Merged Image

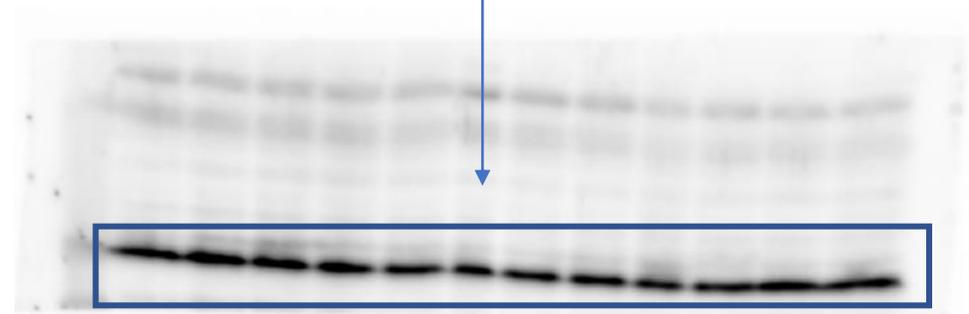
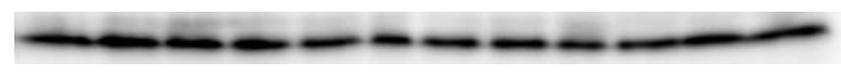
Calnexin

**Figure S6 Bax merged gel Colorimetric image**



# Figure S6 Bcl-2 (21kda)

Bcl-2 blot image presented in Figure S6 of manuscript



IOP Gel Chemiluminescence Image



IOP Gel Colorimetric Image



IOP Gel Merged Image

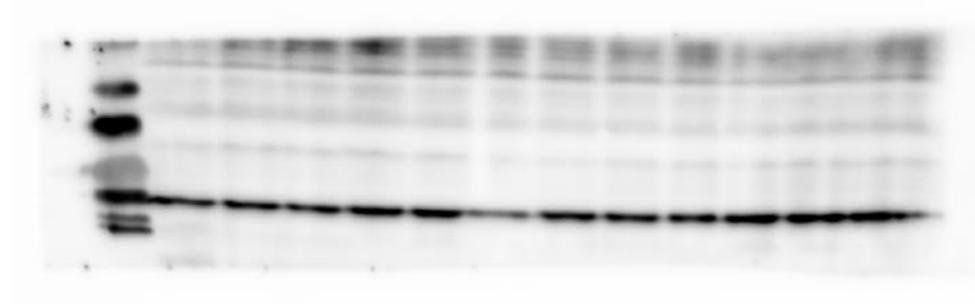
25kda Marker



Bcl-2



# Figure S6 Bcl-2-Calnexin (90kda)



Bcl-2 control blot image

ICP Gel Chemiluminescence Image



ICP Gel Colorimetric Image



100kda Marker

ICP Gel Merged Image

Calnexin

**Figure S6 Bcl-2 merged gel Colorimetric image**

