

Supplementary Information

Antibodies	Company	Product number	Country	Dilution
Beclin1	Abcam	ab210498	UK	1:1000
GSDMD	Abcam	ab219800	UK	WB:1:1000
SQSTM1/p62	Abcam	ab109012	UK	1:10000
TMSI/ASC	Abcam	ab307560	UK	1:1000
pro-Caspase-1+p10+p12	Abcam	ab179515	UK	1:1000
LC3A/B	Abcam	ab48394	UK	IF:1:2000
LC3A/B	CST	4108S	USA	WB:1:1000
cleaved-caspase-1	CST	893323S	USA	1:1000
Tom20	Santa Cruz	Sc-17764	USA	IF: 1:200
PINK1	ABclonal	A7131	CN	1:1000
Parkin	ABclonal	A0968	CN	1:500
cleaved GSDMD (N Terminal)	ABclonal	A22523	CN	1:500
IL-1 β	ABclonal	A16288	CN	1:500
NLRP3	ABclonal	A21906	CN	1:1000
Vinculin	ABclonal	A2752	CN	1:5000
GSDMD	Proteintech	20770-1-AP	CN	IHC:1 : 400
FUNDC1	Proteintech	28519-1-AP	CN	1:5000
BNIP3L	Proteintech	12986-1-AP	CN	1:500
ZO-1	Proteintech	21773-1-AP	CN	1:1000
BNIP3	Proteintech	68091-1-Ig	CN	1:5000
GADPH	Proteintech	60004-1-Ig	CN	1:5000
β -actin	Proteintech	66009-1-Ig	CN	1:2000
Beclin1	AiFang biological	AF300150	CN	IF: 1:500
Occludin	Servicebio	GB111401-100	CN	1:3000

WB: Western blot analysis; IF: Immunofluorescence; IHC: immunohistochemistry

Supplementary Table 1. Primary antibodies used in this study.

Primer sequence (5'-3')		
Gene	Forward	Reverse
IL-18	TGAAGTAAGAGGACTGGCTGTGA	TTGGCAAGCAAGAAAGTGTCC
IL-1 β	GCATCCAGCTTCAAATCTCGC	TGTTTCATCTCGGAGCCTGTAGTG
GSDMD	TAAGGCTCTGGAGACAACGGTG	TGACAATAGGAACAGGGAGGC
caspase-1	AAAGACAAGCCCAAGGTGATC	CCAAGTCACAAGACCAGGCATA
NLRP3	CTAGCCACGCTAATGATCGACT	CCACTCCTCTTCAATGCTGTCT
ND1	ATGGCCTTCCTCACCTAGT	GTTAGGGGGCGTATGGGTTC
mt-tRNA	AATGGTTCGTTTGTTC AACGATT	AGAAACCGACCTGGATTGCTC
β -actin	CTAAGGCCAACCGTGAAAAGAT	ACCAGAGGCATACAGGGACAAC
GAPDH	CTGGGCTACACTGAGCACC	AAGTGGTCGTTGAGGGCAATG

Supplementary Table 2. Primer sequences used for RT-qPCR analysis in this study.

Supplementary figures

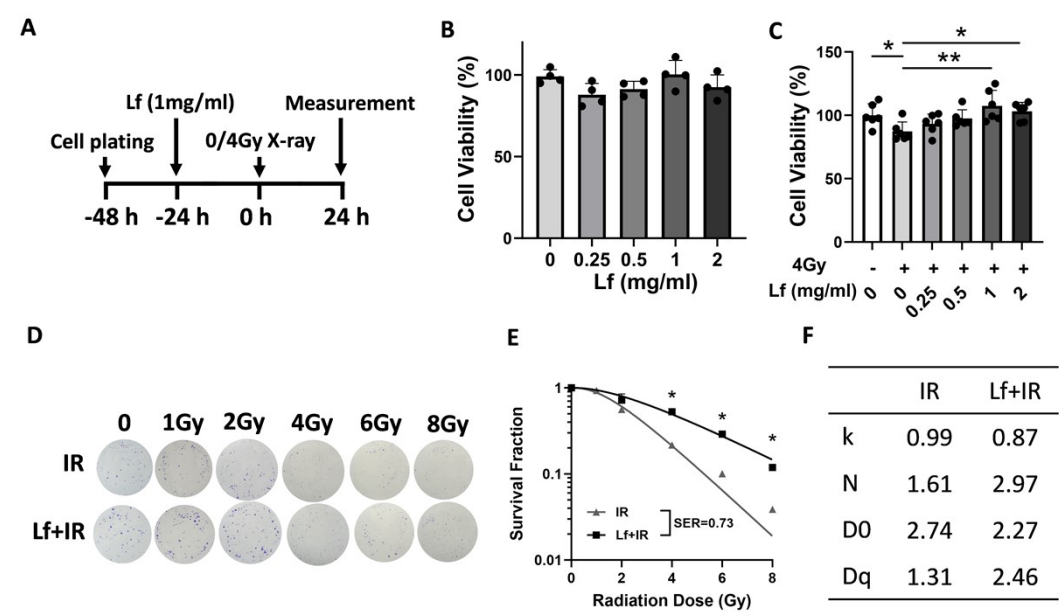


Fig. S1: Effect of lactoferrin on cytotoxicity and proliferative activity in IEC-6 cells.

A) Schematic illustration of radiation-induced intestinal injury in IEC-6 cells.

B) The effect of lactoferrin treatment alone on cell viability (n=4).

C) Changes in cell survival rate after lactoferrin pretreatment and 4Gy irradiation (n=6).

D) Representative images of colony formation observed visually and under a microscope.

E, F) The effect of different doses on the clonogenic ability of IEC-6 cells (n=3).

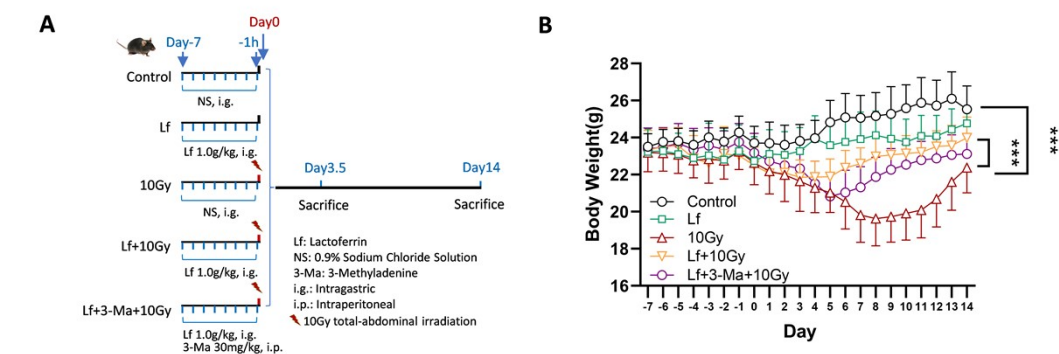


Fig. S2: Protocol of animal experiments (A) and body weight in each group during the experiment