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SI Table 1: Integrated processing steps on the microfluidic PLA chip. Flush cycles include washing steps.

Assay step	Duration	Conditions
Fibronectin coating	3 h	37°C, 5% CO₂
Cell seeding	~1 h	37°C, 5% CO <sub>2</sub>
Cell culture, Starvation	12 h	37°C, 5% CO <sub>2</sub>
Stimulation, Fixation,	3 h	37°C, 5% CO₂
Permeabilization, Blocking		
Primary antibodies	8 h	20°C
Secondary antibodies	4 h	20°C
Ligation	1.5 h	32°C
Amplification, Staining	4 h	32°C