



**ANTIBODY**

*For research use only. Not for clinical diagnosis.*

**Catalog No.CSA-001**

## Anti-ITGB1 (Clone:SS88)

<b>Product type</b>	Recombinant Rabbit IgG-kappa (Clone:SS88)
<b>Immunogen</b>	Human_ITGB1 (P05556)
<b>Form</b>	Liquid
<b>Concentration</b>	300µg/mL
<b>Volume</b>	200µL
<b>Buffer</b>	Phosphate Buffered Saline (PBS)
<b>Preservative</b>	ProClin 300 (15 ppm)
<b>Specificity</b>	Human
<b>Applications</b>	WB(1:500-2000), IC(1:100-1000), IHC(p)(1:50-200) , IF(1:500-2000)
<b>Host</b>	HEK293

**Gene Alias** FNRB, MDF2, MSK12

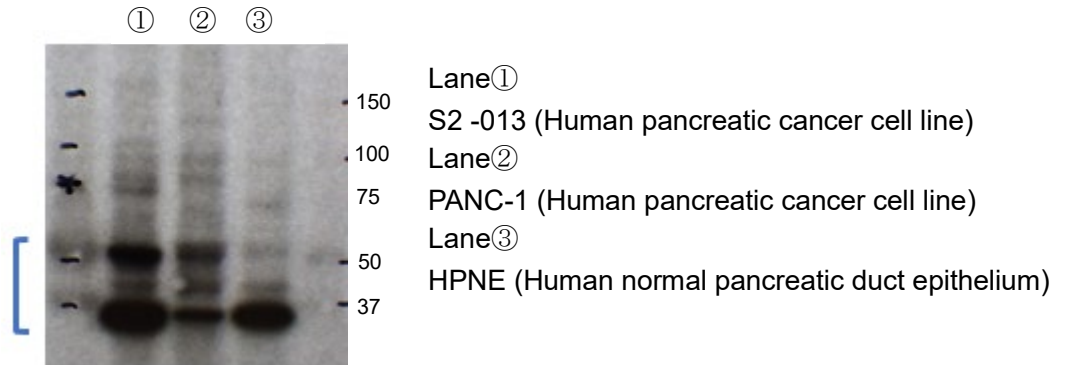
**Application notes** ITGB1, also known as integrin beta 1, is an integrin protein that is expressed on a variety of cell types, including endothelial cells, smooth muscle cells, and fibroblasts. Integrins are transmembrane proteins that mediate cell-to-cell and cell-to-matrix interactions.

- Cell adhesion: ITGB1 binds to extracellular matrix proteins, such as fibronectin and collagen, to help cells adhere to each other and to the extracellular matrix. This is essential for the formation and maintenance of tissues.
- Cell signaling: ITGB1 can also signal to cells, triggering a variety of cellular responses, such as cell migration, proliferation, and differentiation.
- Inflammation: ITGB1 is involved in inflammation, as it can bind to inflammatory molecules, such as chemokines and cytokines. This can promote the recruitment of immune cells to sites of inflammation.

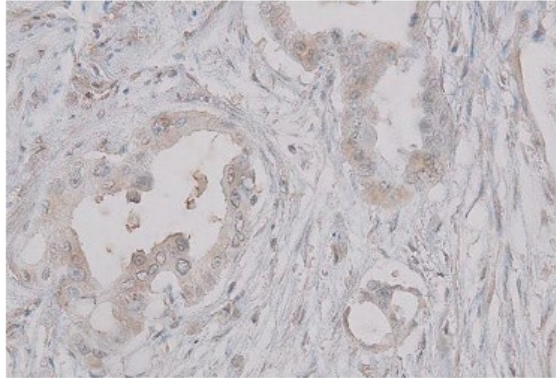
ITGB1 is a complex protein with a wide range of functions. It is involved in a number of important biological processes, including cell adhesion, cell signaling, and inflammation. ITGB1 is also involved in a number of diseases, and it is a potential target for therapeutic interventions.

### Western blot

Antibody dilution: 1:2000 . Specific band of 35~60kDa.



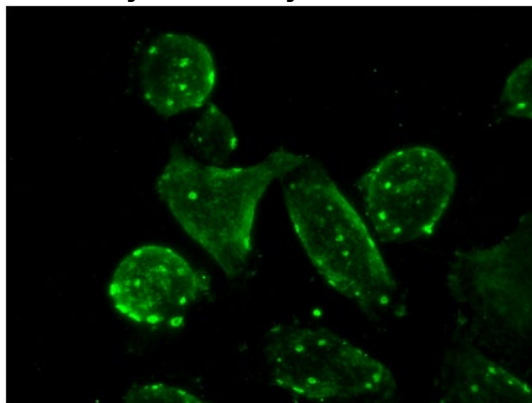
### Immunohistochemistry(Paraffin sections)



Intense ITGB1 staining was observed in the cytoplasm and cell-membrane of both ductal adenocarcinoma cells and cancer-associated fibroblasts (CAFs), with stronger staining in the adenocarcinoma cells.

Antibody dilution: 1:200

### Immunocytochemistry

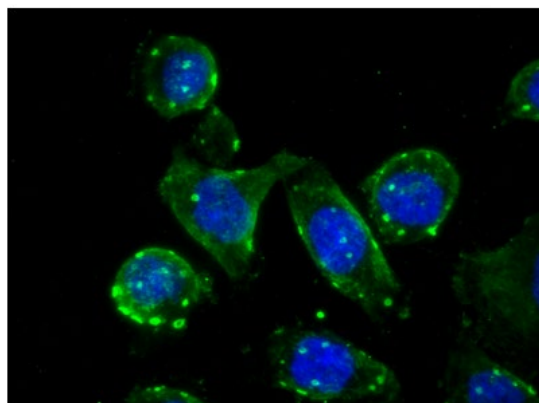


(Immunocytochemical staining of ITGB1 in S2-013 pancreatic cancer cells)

Intense ITGB1 staining was observed in the cytoplasm and cell-membrane of S2-013 cells, with a granular distribution of ITGB1. Green: ITGB1.

Antibody dilution: 1:1000

## Immunocytochemistry



ITGB1 staining was observed in the cytoplasm and cell-membrane of S2-013 cells. ITGB1 (green)/DAPI (blue).

## Storage

-80°C

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