# Anti-F-spondin Antibody [PSH02-84]

## HA721863

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|---|---|
| **Product Type:** | Recombinant Rabbit monoclonal IgG, primary antibodies |
| **Species reactivity:** | Human |
| **Applications:** | WB, IF-Cell, FC |
| **Molecular Wt:** | Predicted band size: 91 kDa |
| **Clone number:** | PSH02-84 |

**Description:** Cell adhesion protein that promotes the attachment of spinal cord and sensory neuron cells and the outgrowth of neurites in vitro. May contribute to the growth and guidance of axons in both the spinal cord and the PNS (By similarity). Major factor for vascular smooth muscle cell.

**Immunogen:** Synthetic peptide within human Spondin-1 201-250 / 807.

**Positive control:** SW1990 cell lysate, PANC-1 cell lysate, U-2 OS cell lysate, HepG2 cell lysate, PANC-1, SW1990.

**Subcellular location:** Secreted protein; extracellular space; extracellular matrix.

**Database links:** SwissProt: Q9HCB6 Human

**Recommended Dilutions:**

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| **WB** | 1:1,000 |
| **IF-Cell** | 1:100-1:500 |
| **FC** | 1:1,000 |

**Storage Buffer:** PBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.

**Purity:** Protein A affinity purified.

## Images

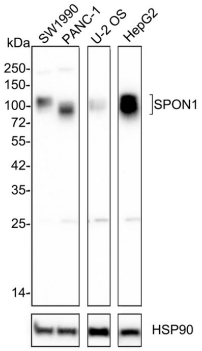


**Fig1:** Western blot analysis of F-spondin on different lysates with Rabbit anti-F-spondin antibody (HA721863) at 1/1,000 dilution.

Lane 1: SW1990 cell lysate
Lane 2: PANC-1 cell lysate
Lane 3: U-2 OS cell lysate
Lane 4: HepG2 cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 91 kDa
Observed band size: 91-120 kDa

Exposure time: 1 minutes 17 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721863) at 1/1,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

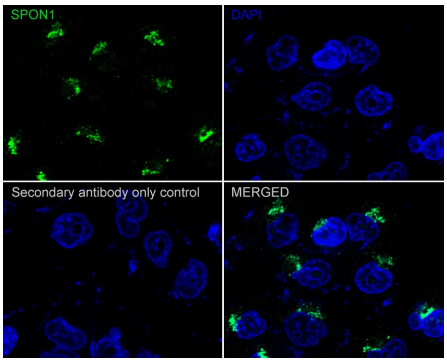


**Fig2:** Immunocytochemistry analysis of PANC-1 cells labeling F-spondin with Rabbit anti-F-spondin antibody (HA721863) at 1/500 dilution.

Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-F-spondin antibody (HA721863) at 1/500 dilution in 1% BSA in PBST overnight at 4 ℃. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

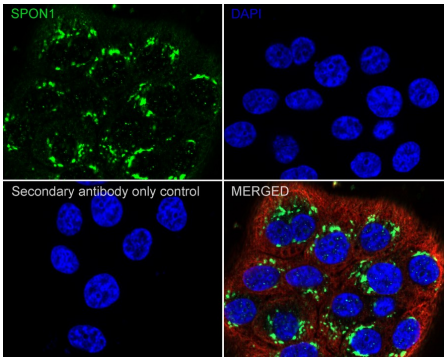


**Fig3:** Immunocytochemistry analysis of SW1990 cells labeling F-spondin with Rabbit anti-F-spondin antibody (HA721863) at 1/100 dilution.

Cells were fixed in 100% precooled methanol for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-F-spondin antibody (HA721863) at 1/100 dilution in 1% BSA in PBST overnight at 4 ℃. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4℃. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

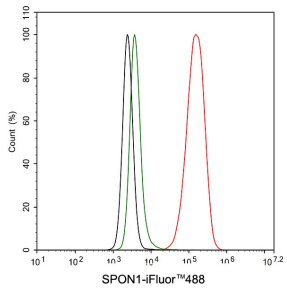


**Fig4:** Flow cytometric analysis of PANC-1 cells labeling F-spondin.

Cells were fixed and permeabilized. Then stained with the primary antibody (HA721863, 1/1,000) (red) compared with Mouse IgG Isotype Control (green). After incubation of the primary antibody at +4℃ for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Mouse IgG Secondary antibody (HA1125) at 1/1,000 dilution for 30 minutes at +4℃. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. Miyakawa R, Kobayashi M, Sugimoto K, Endo Y, Kojima M, Kobayashi Y, Furukawa S, Honda T, Watanabe T, Asano S, Soeda S, Hashimoto Y, Fujimori K, Chiba H. SPON1 is an independent prognostic biomarker for ovarian cancer. J Ovarian Res. 2023 May 13;16(1):95.
2. Huo Y, Yang J, Zheng J, Xu D, Yang M, Tao L, Yao H, Fu X, Yang J, Liu D, Hua R, Zhang J, Sun Y, Hu L, Liu W. Increased SPON1 promotes pancreatic ductal adenocarcinoma progression by enhancing IL-6 trans-signalling. Cell Prolif. 2022 May;55(5):e13237.
3. Park SY, Kang JY, Lee T, Nam D, Jeon CJ, Kim JB. SPON1 Can Reduce Amyloid Beta and Reverse Cognitive Impairment and Memory Dysfunction in Alzheimer's Disease Mouse Model. Cells. 2020 May 21;9(5):1275.