

Anti-CD41 Antibody [PSH08-01]

HA722938



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Mouse
Applications:	IHC-P, FC, IF-Cell, Depletion
Molecular Wt:	Predicted band size: 113 kDa
Clone number:	PSH08-01

Description: Integrin alpha-IIb is a protein that in humans is encoded by the ITGA2B gene. ITGA2B, also known as CD41, encodes integrin alpha chain 2b. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. Alpha chain 2b undergoes post-translational cleavage to yield disulfide-linked light and heavy chains that join with beta 3 to form a fibrinogen receptor expressed in platelets that plays a crucial role in coagulation. Mutations that interfere with this role result in thrombasthenia. At least 38 disease-causing mutations in this gene have been discovered. In addition to adhesion, integrins are known to participate in cell-surface mediated signalling.

Immunogen: Recombinant protein within mouse CD41 aa 451-989.

Positive control: Mouse placenta tissue, mouse spleen tissue, mouse platelets.

Subcellular location: Membrane.

Database links: SwissProt: Q9QUM0 Mouse

Recommended Dilutions:

IHC-P	1:1,000
FC	1:1,000
IF-Cell	1:1,000

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

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

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

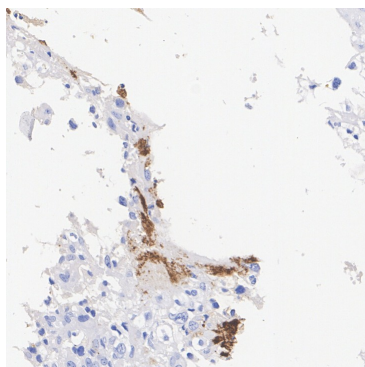


Fig1: Immunohistochemical analysis of paraffin-embedded mouse placenta tissue with Rabbit anti-CD41 antibody (HA722938) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722938) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

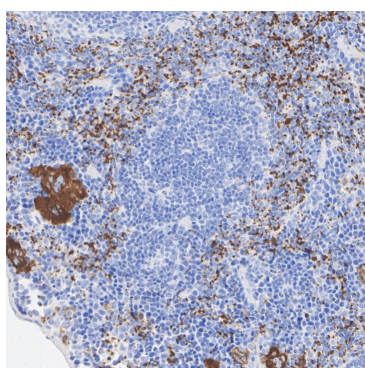


Fig2: Immunohistochemical analysis of paraffin-embedded mouse spleen tissue with Rabbit anti-CD41 antibody (HA722938) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722938) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

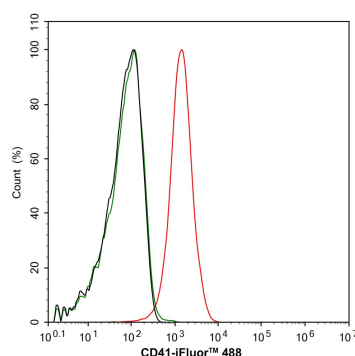


Fig3: Flow cytometric analysis of mouse platelets labeling CD41.

Cells were washed twice with cold PBS and resuspend. Then stained with the primary antibody (HA722938, 1/1,000) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4°C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4°C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

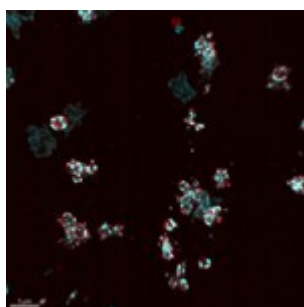


Fig4: Immunocytochemistry analysis of mouse platelets labeling CD41 with Rabbit anti-CD41 antibody (HA722938, cyan) at 1/1,000 dilution.

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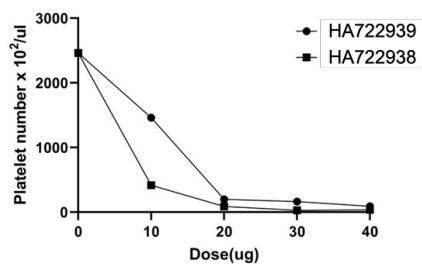


Fig5: Validation of anti-CD41 antibody depletion function in vivo.

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

Background References

- 1. Dai L et al. Characterization of CD41(+) cells in the lymph node. Front Immunol. 2022 Aug
- 2. Sugimoto K et al. CD41(+) extracellular vesicles produced by avian thrombocytes contain microRNAs. Genes Cells. 2023 Dec