

Anti-Integrin beta 5 Antibody [PSH10-13]

HA723182



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Rat, Monkey
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 88 kDa
Clone number:	PSH10-13

Description: Integrin beta-5 is a protein that in humans is encoded by the ITGB5 gene. Integrin, beta 5 has been shown to interact with PTK2, Annexin A5 and PAK4. ITGB5 encodes a subunit of integrin that can interact with several alpha chains to form a variety of integrin heterodimers. It also plays a potential role in intercellular communication during tumor progression and metastasis.

Immunogen: Recombinant protein within human Integrin beta 5 aa 1-719.

Positive control: A549 cell lysate, HT-29 cell lysate, NCI-H1299 cell lysate, PANC-1 cell lysate, COS-1 cell lysate, C6 cell lysate, Rat lung tissue lysate, Rat kidney tissue lysate.

Subcellular location: Cell membrane.

Database links: SwissProt: P18084 Human
Entrez Gene: 257645 Rat

Recommended Dilutions:

WB	1:2,000
IHC-P	1:200-1:1,000

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.

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Orders:0086-571-88062880

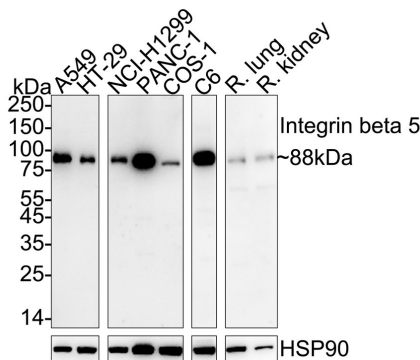
Technical:0086-571-89986345

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Images

Fig1: Western blot analysis of Integrin beta 5 on different lysates with Rabbit anti-Integrin beta 5 antibody (HA723182) at 1/2,000 dilution.



Lane 1: A549 cell lysate
 Lane 2: HT-29 cell lysate
 Lane 3: NCI-H1299 cell lysate
 Lane 4: PANC-1 cell lysate
 Lane 5: COS-1 cell lysate
 Lane 6: C6 cell lysate
 Lane 7: Rat lung tissue lysate
 Lane 8: Rat kidney tissue lysate

Lysates/proteins at 20 μ g/Lane.

Predicted band size: 88 kDa
 Observed band size: 88 kDa

Exposure time: 1 minute 20 seconds; ECL: K1802;

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 (HA723182) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

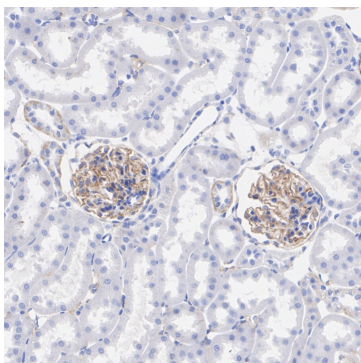


Fig2: Immunohistochemical analysis of paraffin-embedded rat kidney tissue with Rabbit anti-Integrin beta 5 antibody (HA723182) at 1/1,000 dilution.

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 (HA723182) 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.

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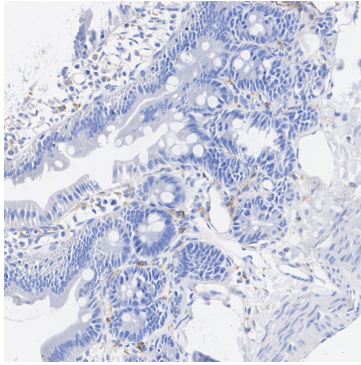


Fig3: Immunohistochemical analysis of paraffin-embedded rat small intestine tissue with Rabbit anti-Integrin beta 5 antibody (HA723182) at 1/200 dilution.

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 (HA723182) at 1/200 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.

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

Background References

1. Lei T et al. ITGB5 facilitates gastric cancer metastasis by promoting TGFBR2 endosomal recycling. *Cancer Lett.* 2024 Jun
2. Wen X et al. ITGB5 promotes innate radiation resistance in pancreatic adenocarcinoma by promoting DNA damage repair and the MEK/ERK signaling pathway. *Front Oncol.* 2022 Sep

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