

# Anti-Integrin beta 5 Antibody [PSH10-13] - BSA and Azide free

## HA751342



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

<b>WB</b>	1:2,000
<b>IHC-P</b>	1:200-1:1,000

**Storage Buffer:** 1\*PBS (pH7.4).

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

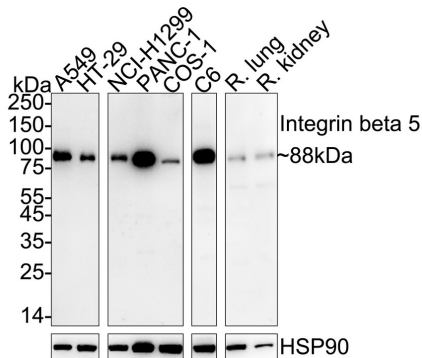
Technical:0086-571-89986345

Service mail:support@huabio.cn

 华安生物  
HUABIO  
www.huabio.cn

## Images

**Fig1:** Western blot analysis of Integrin beta 5 on different lysates with Rabbit anti-Integrin beta 5 antibody (HA751342) 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

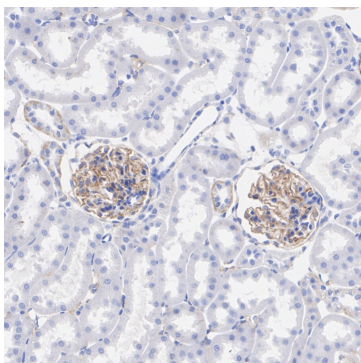
Lysates/proteins at 20 µg/Lane.

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 (HA751342) 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 (HA751342) 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 ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA751342) 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.

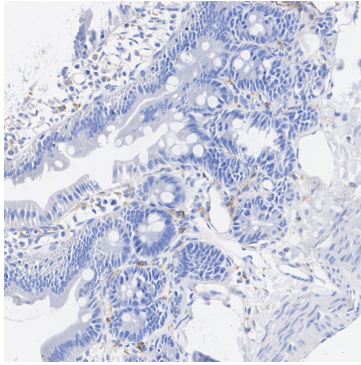
Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物  
 HUABIO  
 www.huabio.cn



**Fig3:** Immunohistochemical analysis of paraffin-embedded rat small intestine tissue with Rabbit anti-Integrin beta 5 antibody (HA751342) 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 ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA751342) 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

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物  
HUABIO  
www.huabio.cn