

Anti-Integrin beta 3 Antibody [PSH09-27]

HA723085



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P, IF-Tissue
Molecular Wt:	Predicted band size: 87 kDa
Clone number:	PSH09-27

Description: Integrin beta-3 ($\beta 3$) or CD61 is a protein that in humans is encoded by the ITGB3 gene. CD61 is a cluster of differentiation found on thrombocytes. The ITGB3 protein product is the integrin beta chain beta 3. Integrins are integral cell-surface proteins composed of an alpha chain and a beta chain. A given chain may combine with multiple partners resulting in different integrins. Integrin beta 3 is found along with the alpha IIb chain in platelets. Integrins are known to participate in cell adhesion as well as cell-surface-mediated signaling. Defectively expressed $\beta 3$ integrin subunit has been correlated with presence of endometriosis, and has been suggested as a putative marker of this condition.

Immunogen: Synthetic peptide within human Integrin beta 3 aa 101-150.

Positive control: U-87 MG cell lysate, LNCaP cell lysate, HUVEC cell lysate, C2C12 cell lysate, Mouse spleen tissue lysate, Rat spleen tissue lysate, human kidney tissue, human spleen tissue, mouse spleen tissue, rat spleen tissue.

Subcellular location: Cell membrane, Cell projection, lamellipodium membrane, Cell junction, focal adhesion, Postsynaptic cell membrane, Synapse.

Database links: SwissProt: P05106 Human | O54890 Mouse
Entrez Gene: 29302 Rat

Recommended Dilutions:

WB	1:5,000
IHC-P	1:2,000
IF-Tissue	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

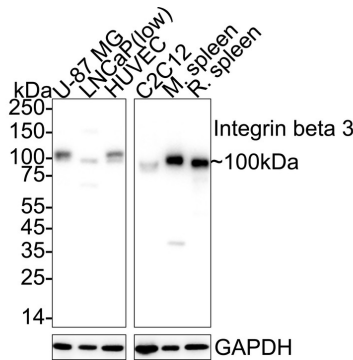
Technical:0086-571-89986345

Service mail:support@huabio.cn

 华安生物
HUABIO
www.huabio.cn

Images

Fig1: Western blot analysis of Integrin beta 3 on different lysates with Rabbit anti-Integrin beta 3 antibody (HA723085) at 1/5,000 dilution.



Lane 1: U-87 MG cell lysate (20 µg/Lane)
 Lane 2: LNCaP cell lysate (low expression) (20 µg/Lane)
 Lane 3: HUVEC cell lysate (20 µg/Lane)
 Lane 4: C2C12 cell lysate (20 µg/Lane)
 Lane 5: Mouse spleen tissue lysate (40 µg/Lane)
 Lane 6: Rat spleen tissue lysate (40 µg/Lane)

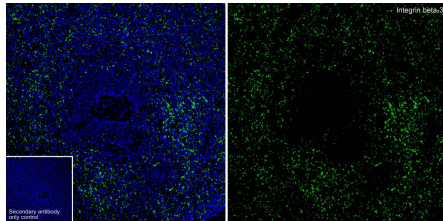
Predicted band size: 87 kDa
 Observed band size: 100 kDa

Exposure time: 20 seconds; ECL: K1801;

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 (HA723085) at 1/5,000 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: Application: IF-Tissue



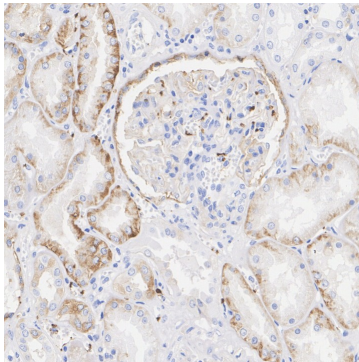
Species: Human

Site: spleen

Sample: Paraffin-embedded section

Antibody concentration: 1/1,000

Fig3: Immunohistochemical analysis of paraffin-embedded human kidney tissue with Rabbit anti-Integrin beta 3 antibody (HA723085) at 1/2,000 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 (HA723085) at 1/2,000 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

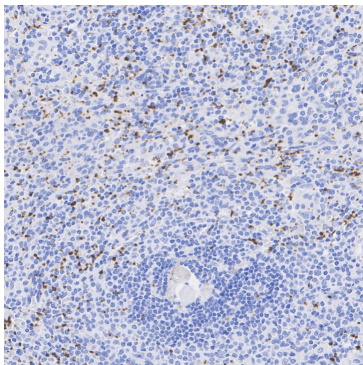


Fig4: Immunohistochemical analysis of paraffin-embedded human spleen tissue with Rabbit anti-Integrin beta 3 antibody (HA723085) at 1/2,000 dilution.

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 (HA723085) at 1/2,000 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.

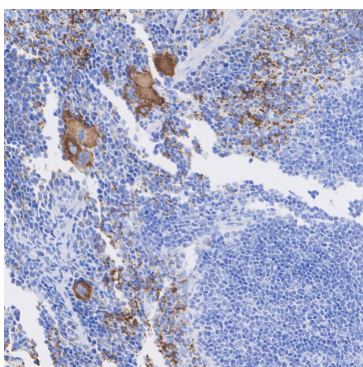


Fig5: Immunohistochemical analysis of paraffin-embedded mouse spleen tissue with Rabbit anti-Integrin beta 3 antibody (HA723085) at 1/2,000 dilution.

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 (HA723085) at 1/2,000 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.

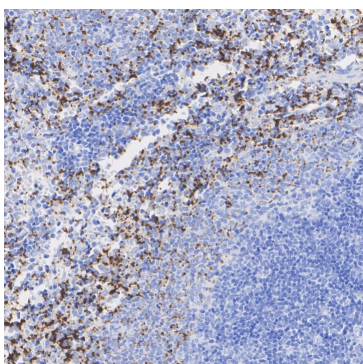


Fig6: Immunohistochemical analysis of paraffin-embedded rat spleen tissue with Rabbit anti-Integrin beta 3 antibody (HA723085) at 1/2,000 dilution.

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 (HA723085) at 1/2,000 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.

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

Background References

1. Zhang Y et al. Integrin beta(3) directly inhibits the Galpha(13)-p115RhoGEF interaction to regulate G protein signaling and platelet exocytosis. Nat Commun. 2023 Aug
2. Hu HJ et al. Integrin beta 3-overexpressing mesenchymal stromal cells display enhanced homing and can reduce atherosclerotic plaque. World J Stem Cells. 2023 Sep

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

 华安生物
HUAABIO
www.huabio.cn