

Anti-Integrin beta 1 Antibody [SA40-08]

ET1601-17



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat, Zebrafish
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 88 kDa
Clone number:	SA40-08

Description: Integrin beta-1 (ITGB1), also known as CD29, is a cell surface receptor that in humans is encoded by the ITGB1 gene. This integrin associates with integrin alpha 1 and integrin alpha 2 to form integrin complexes which function as collagen receptors. It also forms dimers with integrin alpha 3 to form integrin receptors for netrin 1 and reelin. These and other integrin beta 1 complexes have been historically known as very late activation (VLA) antigens. Integrin beta 1 is expressed as at least four different isoforms. In cardiac muscle and skeletal muscle, the integrin beta-1D isoform is specifically expressed, and localizes to costameres, where it aids in the lateral force transmission from the Z-discs to the extracellular matrix. Abnormal levels of integrin beta-1D have been found in limb girdle muscular dystrophy and polyneuropathy.

Immunogen: Recombinant protein within Human Integrin beta 1 aa 1-240 / 798.

Positive control: HeLa cell lysate, U-87 MG cell lysate, A431 cell lysate, Neuro-2a cell lysate, C6 cell lysate, human liver carcinoma tissue, human colon carcinoma tissue, mouse stomach tissue, mouse kidney tissue, human liver tissue.

Subcellular location: Cell Membrane, Cell projection, Cleavage furrow

Database links: SwissProt: P05556 Human | P09055 Mouse | P49134 Rat

Recommended Dilutions:

WB	1:2,000
IHC-P	1:200-1:500

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃ or -80℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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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

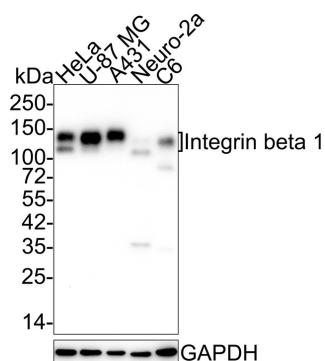


Fig1: Western blot analysis of Integrin beta 1 on different lysates with Rabbit anti-Integrin beta 1 antibody (ET1601-17) at 1/2,000 dilution.

Lane 1: HeLa cell lysate
 Lane 2: U-87 MG cell lysate
 Lane 3: A431 cell lysate
 Lane 4: Neuro-2a cell lysate
 Lane 5: C6 cell lysate

Lysates/proteins at 15 µg/Lane.

Predicted band size: 88 kDa
 Observed band size: 120-140 kDa

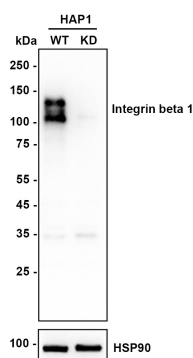
Exposure time: 1 minutes 22 seconds;

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 (ET1601-17) 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: Western blot analysis of Integrin beta 1 on different lysates with Rabbit anti-Integrin beta 1 antibody (ET1601-17) at 1/5,000 dilution.

Lane 1: HAP1-parental cell lysate
 Lane 2: HAP1-Integrin beta 1 KD cell lysate



Lysates/proteins at 10 µg/Lane.

Predicted band size: 88 kDa
 Observed band size: 120-140 kDa

Exposure time: 18 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 (ET1601-17) at 1/5,000 dilution was used in primary antibody dilution (K1803) 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.

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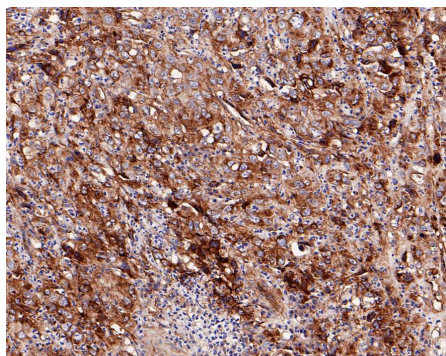


Fig3: Immunohistochemical analysis of paraffin-embedded human liver carcinoma tissue with Rabbit anti-Integrin beta 1 antibody (ET1601-17) at 1/500 dilution.

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 (ET1601-17) at 1/500 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.

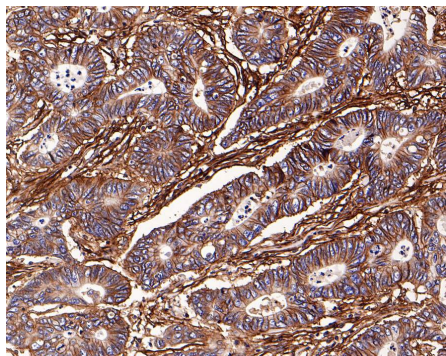


Fig4: Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue with Rabbit anti-Integrin beta 1 antibody (ET1601-17) at 1/500 dilution.

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 (ET1601-17) at 1/500 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.

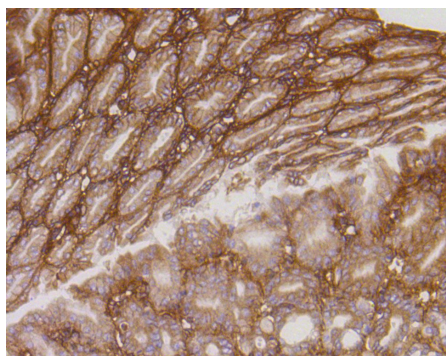


Fig5: Immunohistochemical analysis of paraffin-embedded mouse stomach tissue using anti-Integrin beta 1 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1601-17, 1/200) for 30 minutes 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.

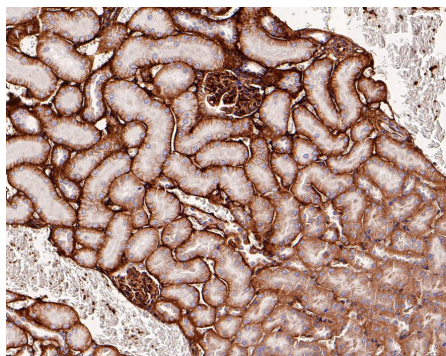


Fig6: Immunohistochemical analysis of paraffin-embedded mouse kidney tissue with Rabbit anti-Integrin beta 1 antibody (ET1601-17) at 1/500 dilution.

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 (ET1601-17) at 1/500 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.

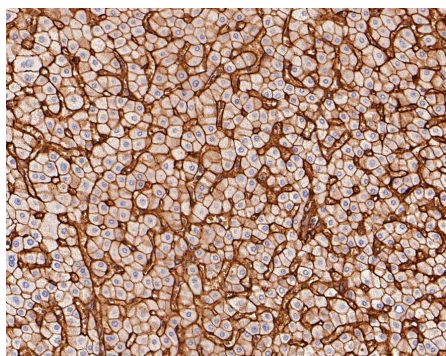


Fig7: Immunohistochemical analysis of paraffin-embedded human liver tissue with Rabbit anti-Integrin beta 1 antibody (ET1601-17) at 1/200 dilution.

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 (ET1601-17) 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. "Glycoproteomics analysis of human liver tissue by combination of multiple enzyme digestion and hydrazide chemistry." Chen R. Jiang X. Sun D. Han G. Wang F., Ye M. Wang L. Zou H. J. Proteome Res. 8:651-661(2009).
2. "Osteoblast mineralization requires beta1 integrin/ICAP-1-dependent fibronectin deposition." Brunner M. Millon-Fremillon A. Chevalier G. Nakchbandi I.A. Mosher D. Block M.R. Albiges-Rizo C. Bouvard D. J. Cell Biol. 194:307-322(2011).

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