

Rabbit anti-Human, Mouse Integrin beta 5/ITGB5 Polyclonal Antibody | anti-ITGB5 antibody

Anti-Integrin beta 5/ITGB5 Antibody

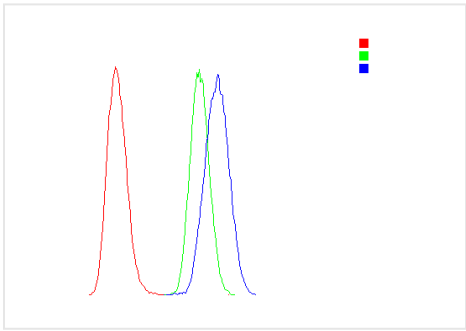
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125718	Rabbit	Human, Mouse	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Integrin beta 5/ITGB5; Polyclonal Antibody; Anti-Integrin beta 5/ITGB5 Antibody; Integrin beta-5; ITGB5; integrin subunit beta 5; anti-ITGB5 antibody

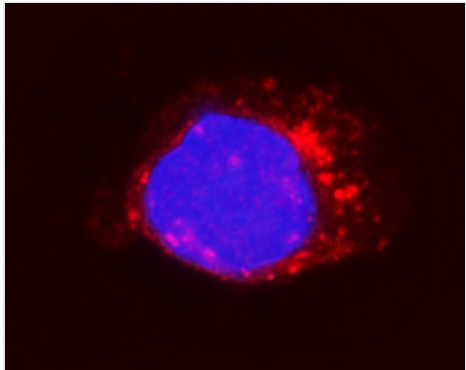
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Integrin beta 5/ITGB5 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-ITGB5 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Integrin beta 5/ITGB5 recombinant protein (Position: S32-D689).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



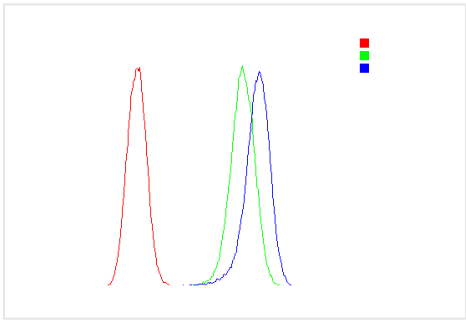
FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of Raji cells using anti-Integrin beta 5/ITGB5 antibody (AAA125718).Overlay histogram showing Raji cells stained with AAA125718 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Integrin beta 5/ITGB5 Antibody (AAA125718,1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



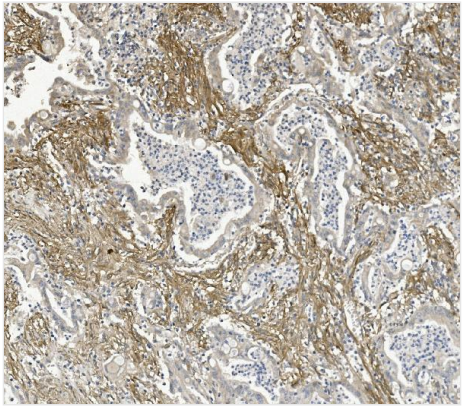
IF (Immunofluorescence)

Figure 3. IF analysis of Integrin beta 5/ITGB5 using anti-Integrin beta 5/ITGB5 antibody (AAA125718).Integrin beta 5/ITGB5 was detected in immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 4μg/mL rabbit anti-Integrin beta 5/ITGB5 Antibody (AAA125718) overnight at 4 degree C. DyLight®550 Conjugated Goat Anti-Rabbit IgG (BA1135) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



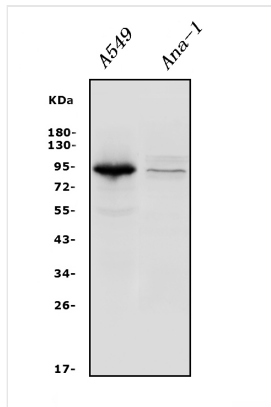
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of A549 cells using anti-Integrin beta 5/ITGB5 antibody (AAA125718).Overlay histogram showing A549 cells stained with AAA125718 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Integrin beta 5/ITGB5 Antibody (AAA125718,1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of ITGB5 using anti-ITGB5 antibody (AAA125718).ITGB5 was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1μg/ml rabbit anti-ITGB5 Antibody (AAA125718) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of Integrin beta 5/ITGB5 using anti-Integrin beta 5/ITGB5 antibody (AAA125718). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human A549 whole cell lysates. Lane 2: mouse Ana-1 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Integrin beta 5/ITGB5 antigen affinity purified polyclonal antibody (Catalog # AAA125718) at 0.5 µg/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Integrin beta 5/ITGB5 at approximately 90KD. The expected band size for Integrin beta 5/ITGB5 is at 90KD.

ADDITIONAL INFORMATION

Related Product Information for anti-ITGB5 antibody	This gene encodes a beta subunit of integrin, which can combine with different alpha chains to form a variety of integrin heterodimers. Integrins are integral cell-surface receptors that participate in cell adhesion as well as cell-surface mediated signaling. The alpha-v beta5 integrin is involved in adhesion to vitronectin.
References	1. Busk, M., Pytela, R., Sheppard, D. Characterization of the integrin alpha-v-beta-6 as a fibronectin-binding protein. J. Biol. Chem. 267: 5790-5796, 1992. 2. McLean, J. W., Vestal, D. J., Cheresch, D. A., Bodary, S. C. cDNA sequence of the human integrin beta 5 subunit. J. Biol. Chem. 265: 17126-17131, 1990. 3. Reynolds, L. E., Wyder, L., Lively, J. C., Taverna, D., Robinson, S. D., Huang, X., Sheppard, D., Hynes, R. O., Hodivala-Dilke, K. M. Enhanced pathological angiogenesis in mice lacking beta-3 integrin or beta-3 and beta-5 integrins. Nature Med. 8: 27-34, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	20127446
NCBI GeneID	3693
NCBI Accession #	NP_002204.2
NCBI GenBank Nucleotide #	NM_002213.3
UniProt Accession #	P18084; B0LPF8; B2RD70
Molecular Weight	88,054 Da
NCBI Official Full Name	integrin beta-5
NCBI Official Synonym Full Names	integrin, beta 5
NCBI Official Symbol	ITGB5
NCBI Protein Information	integrin beta-5
UniProt Protein Name	Integrin beta-5

UniProt Gene Name	ITGB5
UniProt Entry Name	ITB5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/integrin-beta-5-itgb5-antibody-direct-elisa-flow-cytometry-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/125718>