

Rabbit Integrin beta4 Polyclonal Antibody | anti-ITGB4 antibody

Integrin beta4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321997	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

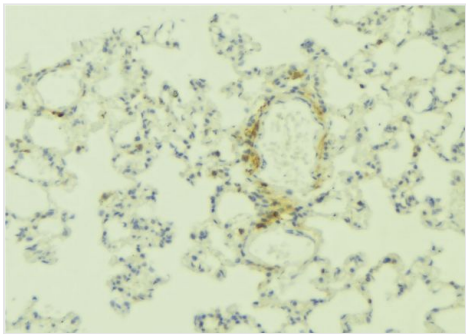
PRODUCT SYNONYMS

Integrin beta4; Polyclonal Antibody; Integrin beta4 Antibody; CD 104; CD104; CD104 antigen; gp150; Integrin beta 4 subunit; Integrin beta-4; ITB4_HUMAN; ITG B4; ITGB 4; Itgb4; anti-ITGB4 antibody

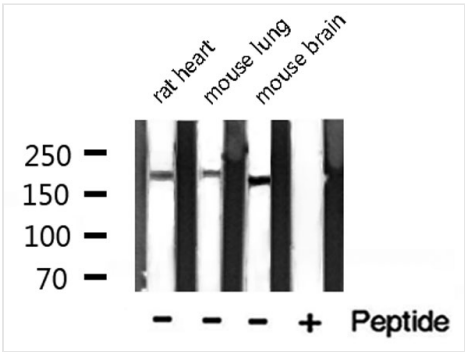
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Integrin beta4 antibody detects endogenous levels of total Integrin beta4
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1822
Applicable Applications for anti-ITGB4 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Integrin beta4
Subcellular Location	Membrane.
Tissue Specificity	Integrin alpha-6/beta-4 is predominantly expressed by epithelia. Isoform beta-4D is also expressed in colon and placenta. Isoform beta-4E is also expressed in epidermis, lung, duodenum, heart, spleen and stomach.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Chicken
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Chicken (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

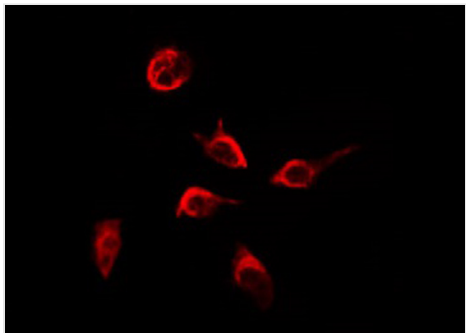
IMAGES



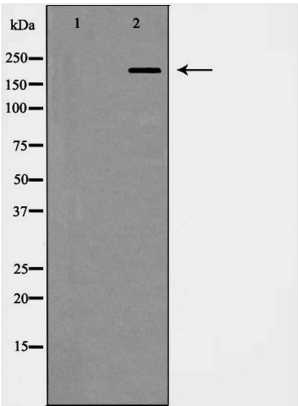
IHC (Immunohistochemistry)
AAA321997 at 1/100 staining Human lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of Integrin beta4 expression in various lysates



IF (Immunofluorescence)
AAA321997 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of Integrin beta4 expression in HepG2 cells. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ITGB4 antibody	Description: Integrin alpha-6/beta-4 is predominantly expressed by epithelia. Isoform beta-4D is also expressed in colon and placenta. Isoform beta-4E is also expressed in epidermis, lung, duodenum, heart, spleen and stomach. Function: Integrin alpha-6/beta-4 is a receptor for laminin. Plays a critical structural role in the hemidesmosome of epithelial cells. Is required for the regulation of keratinocyte polarity and motility. ITGA6:ITGB4 binds to NRG1 (via EGF domain) and this binding is essential for NRG1-ERBB signaling (PubMed:20682778). ITGA6:ITGB4 binds to IGF1 and this binding is essential for IGF1 signaling (PubMed:22351760). ITGA6:ITGB4 binds to IGF2 and this binding is essential for IGF2 signaling (PubMed:28873464). Subunit Structure: Heterodimer of an alpha and a beta subunit. Beta-4 associates with alpha-6. Interacts (via cytoplasmic region) with COL17A1 (via cytoplasmic region). Interacts (via cytoplasmic region) with DST isoform 3 (via N-terminus). Isoform beta-4a interacts (via cytoplasmic domain) with DST (via N-terminus). Interacts with RAC1. ITGA6:ITGB4 is found in a ternary complex with NRG1 and ERBB3 (PubMed:20682778). ITGA6:ITGB4 is found in a ternary complex with IGF1 and IGF1R (PubMed:22351760). ITGA6:ITGB4 interacts with IGF2 (PubMed:28873464). Post-translational Modifications: Palmitoylated by DHHC3 at several cysteines of the membrane-proximal region, enhancing stability and cell surface expression. Palmitoylation also promotes secondary association with tetraspanins. Similarity: The fibronectin type-III-like domains bind BPAG1 and plectin and probably also recruit BP230. Belongs to the integrin beta chain family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	54607035
NCBI GeneID	3691

NCBI Accession #	NP_000204.3
NCBI GenBank Nucleotide #	NM_000213.4
UniProt Accession #	P16144; O14690; O14691; O15339; O15340; O15341; Q0VF97; Q9UIQ4; A0AVL6
Molecular Weight	Observed: 202 kDa Predicted: 203 kDa
NCBI Official Full Name	integrin beta-4 isoform 1
NCBI Official Synonym Full Names	integrin subunit beta 4
NCBI Official Symbol	ITGB4
NCBI Official Synonym Symbols	CD104; GP150
NCBI Protein Information	integrin beta-4
UniProt Protein Name	Integrin beta-4
UniProt Gene Name	ITGB4

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-beta4-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321997>