

Rabbit anti-Human ITGB7 Polyclonal Antibody | anti-ITGB7 antibody

ITGB7 Antibody

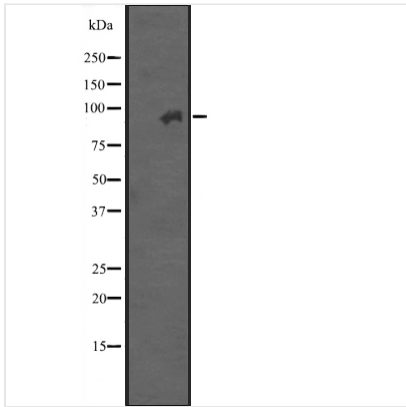
CATALOG # AAA323478	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

ITGB7; Polyclonal Antibody; ITGB7 Antibody; Gut homing receptor beta subunit; Integrin beta 7 subunit; Integrin beta-7; Integrin beta-P; Integrin; beta 7; ITB7; ITB7_HUMAN; Itgb7; Ly69; M290 IEL antigen; anti-ITGB7 antibody

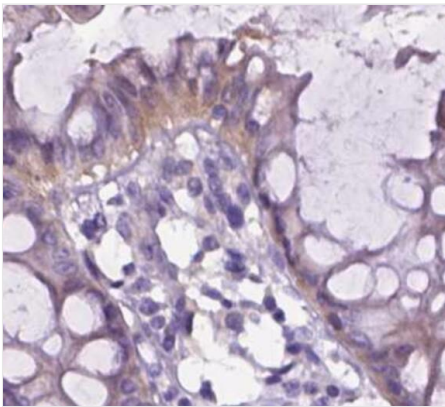
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	ITGB7 antibody detects endogenous levels of total ITGB7
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	798
Applicable Applications for anti-ITGB7 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Membrane.
Tissue Specificity	Expressed in a variety of leukocyte lines.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (90%), Bovine (90%), Horse (100%), Sheep (100%), Rabbit (90%), Dog (100%)
Conjugation	Unconjugated



WB (Western Blot)

Western blot analysis of ITGB7 expression in A431 whole cell lysate. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling Integrin beta 7

ADDITIONAL INFORMATION

Related Product Information for anti-ITGB7 antibody

Description: Integrin alpha-4/beta-7 (Peyer patches-specific homing receptor LPAM-1) is an adhesion molecule that mediates lymphocyte migration and homing to gut-associated lymphoid tissue (GALT). Integrin alpha-4/beta-7 interacts with the cell surface adhesion molecules MADCAM1 which is normally expressed by the vascular endothelium of the gastrointestinal tract. Interacts also with VCAM1 and fibronectin, an extracellular matrix component. It recognizes one or more domains within the alternatively spliced CS-1 region of fibronectin. Interactions involves the tripeptide L-D-T in MADCAM1, and L-D-V in fibronectin. Binds to HIV-1 gp120, thereby allowing the virus to enter GALT, which is thought to be the major trigger of AIDS disease. Interaction would involve a tripeptide L-D-I in HIV-1 gp120. Integrin alpha-E/beta-7 (HML-1) is a receptor for E-cadherin. Subunit Structure: Heterodimer of an alpha and a beta subunit. Beta-7 associates with either alpha-4 or alpha-E. Integrin alpha-4/beta-7 interacts with MADCAM1, VCAM1, fibronectin, and may also interact with HIV-1 gp120. Interacts with FLNA (via filamin repeats 4, 9, 12, 17, 19, 21, and 23) (PubMed:19828450). Similarity: Domain I contains three cation-binding sites: the ligand-integrin-binding site (LIMBS), the metal ion-dependent adhesion site (MIDAS), and the adjacent to MIDAS site (ADMIDAS). In the absence of a ligand or in calcium-dependent binding, only ADMIDAS is occupied. In magnesium-dependent binding all three sites bind metal ions. LIMBS positively modify ligand binding whereas ADMIDAS negatively modify ligand binding. Belongs to the integrin beta chain family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504777
NCBI GeneID	3695
NCBI Accession #	NP_000880.1
NCBI GenBank Nucleotide #	NM_000889.2
UniProt Accession #	P26010; Q9UCP7; Q9UCS7
Molecular Weight	Observed: 87 kDa Predicted: 87 kDa
NCBI Official Full Name	integrin beta-7
NCBI Official Synonym Full Names	integrin subunit beta 7
NCBI Official Symbol	ITGB7
NCBI Protein Information	integrin beta-7
UniProt Protein Name	Integrin beta-7
UniProt Gene Name	ITGB7

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/itgb7-antibody-immunohistochemistry-western-blot-elisa/323478>