

Rabbit Integrin alpha5 Polyclonal Antibody | anti-ITGA5 antibody

Integrin alpha5 (CD49e) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321868	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

Integrin alpha5; Polyclonal Antibody; Integrin alpha5 (CD49e) Antibody; CD49 antigen-like family member E; CD49e; Fibronectin receptor subunit alpha; Fibronectin receptor; alpha subunit; FNRA; Integrin alpha 5 (fibronectin receptor alpha); Integrin alpha-5; Integrin alpha-5 light chain; Integrin alpha-F; Integrin; alpha 5 (fibronectin receptor; alpha polypeptide); ITA5_HUMAN; Itga5; Very late activation protein 5; VLA-5; VLA5; VLA5A; anti-ITGA5 antibody

PRODUCT SPECIFICATIONS

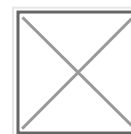
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Integrin alpha5 (CD49e) antibody detects endogenous levels of total Integrin alpha5 (CD49e)
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1049
Applicable Applications for anti-ITGA5 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Integrin alpha5 (CD49e)
Subcellular Location	Membrane.
Predicted Cross Reactivity	Horse, Rabbit, Dog
Similarity	Horse (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of Integrin alpha5 (CD49e) expression in HeLa cells, The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA321868 staining NIH-3T3 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.

ADDITIONAL INFORMATION

Related Product Information for anti-ITGA5 antibody	Description: Integrins are heterodimers composed of noncovalently associated transmembrane alpha and beta subunits. The 16 alpha and 8 beta subunits heterodimerize to produce more than 20 different receptors. Most integrin receptors bind ligands that are components of the extracellular matrix, including fibronectin, collagen and Vitronectin. Function: Integrin alpha-5/beta-1 (ITGA5:ITGB1) is a receptor for fibronectin and fibrinogen. It recognizes the sequence R-G-D in its ligands. ITGA5:ITGB1 binds to PLA2G2A via a site (site 2) which is distinct from the classical ligand-binding site (site 1) and this induces integrin conformational changes and enhanced ligand binding to site 1 (PubMed:18635536, PubMed:25398877). ITGA5:ITGB1 acts as a receptor for fibrillin-1 (FBN1) and mediates R-G-D-dependent cell adhesion to FBN1 (PubMed:12807887, PubMed:17158881). ITGA5:ITGB1 is a receptor for IL1B and binding is essential for IL1B signaling (PubMed:29030430). Subunit Structure: Heterodimer of an alpha and a beta subunit. The alpha subunit is composed of a heavy and a light chain linked by a disulfide bond. Alpha-5 associates with beta-1. Interacts with HPS5 and NISCH. Interacts with RAB21 and COMP. Interacts with CIB1. ITGA5:ITGB1 interacts with NOV. ITGA5:ITGB1 interacts with FBN1 (PubMed:12807887, PubMed:17158881). ITGA5:ITGB1 interacts with IL1B (PubMed:29030430). Post-translational Modifications: Proteolytic cleavage by PCSK5 mediates activation of the precursor. Similarity: Belongs to the integrin alpha chain family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1017029567
NCBI GeneID	3678
NCBI Accession #	NP_002196.4
NCBI GenBank Nucleotide #	NM_002205.4
UniProt Accession #	P08648; Q96HA5
Molecular Weight	Observed: 114 kDa Predicted: 115 kDa
NCBI Official Full Name	integrin alpha-5
NCBI Official Synonym Full Names	integrin subunit alpha 5
NCBI Official Symbol	ITGA5
NCBI Official Synonym Symbols	FNRA; CD49e; VLA-5; VLA5A
NCBI Protein Information	integrin alpha-5
UniProt Protein Name	Integrin alpha-5
UniProt Gene Name	ITGA5
UniProt Synonym Gene Names	FNRA

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.