SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Integrin alpha 5 antibody

Catalog Number: SL24400R

FOR RESEARCH USE ONLY

[DATASHEET]

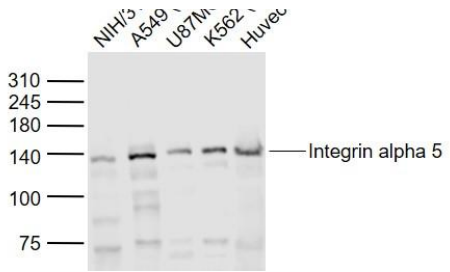
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Integrin alpha 5
Immunogen:	KLH conjugated synthetic peptide derived from human Integrin alpha 5 : 981-1049/1049
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse(predicted:Rat,Pig,Cow,Horse,Rabbit,Sheep)
Predicted MW.:	18/110kDa
Subcellular Location:	The cell membrane
Background:	The product of this gene belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This gene encodes the integrin alpha 5 chain. Alpha chain 5 undergoes post-translational cleavage in the extracellular domain to yield disulfide-linked light and heavy chains that join with beta 1 to form a fibronectin receptor. In addition to adhesion, integrins are known to participate in cell-surface mediated signalling. [provided by RefSeq, Jul 2008] **Function:** CD49e is the integrin alpha 5 chain. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. Alpha chain 5 undergoes post translational cleavage in the extracellular domain to yield disulfide linked light and heavy chains that join with beta 1 to form a fibronectin receptor that is known variously: in lymphocytes as very late (activation) antigen 5 (VLA5); in platelets as glycoprotein IcIIa; and in fibroblasts as extracellular matrix receptor 6 (ECMVI). In addition to

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	adhesion, integrins are known to participate in cell surface mediated signalling. **Subunit:** Heterodimer of an alpha and a beta subunit. The alpha subunit is composed of an 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 HIV-1 Tat. **Subcellular Location:** Membrane; Single-pass type I membrane protein. **Similarity:** Belongs to the integrin alpha chain family. Contains 7 FG-GAP repeats. **Database links:** **Entrez Gene:** 3678 Human **Entrez Gene:** 16402 Mouse **Entrez Gene:** 315346 Rat Omim: 135620 Human **SwissProt:** P08648 Human **SwissProt:** P11688 Mouse **Unigene:** 505654 Human **Unigene:** 16234 Mouse **Unigene:** 100796 Rat ITG-α5 adhesion molecule integrin α5 is also a superfamily member of cell adhesion molecules, widely distributed on the cell surface and as a glycoprotein in the extracellular matrix. It not only mediates cell-cell or cell-matrix connections, but also participates in a series of physiological and pathological processes such as intercellular signal transduction, cell growth and migration, tumour metastasis and invasion, immune inflammatory responses, and angiogenesis.

[VALIDATION IMAGES]



Sample:
Lane 1: NIH/3T3 (Mouse) Cell Lysate at 30 ug
Lane 2: A549 (Human) Cell Lysate at 30 ug
Lane 3: U87MG (Human) Cell Lysate at 30 ug
Lane 4: K562 (Human) Cell Lysate at 30 ug
Lane 5: Huvec (Human) Cell Lysate at 30 ug

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Primary: Anti-Integrin alpha 5 (SL24400R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 140 kD
Observed band size: 140 kD

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