

Datasheet for ABIN6990993
anti-ITGA4 antibody (AA 220-270)



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Overview

Quantity:	0.1 mg
Target:	ITGA4
Binding Specificity:	AA 220-270
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ITGA4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	Integrin alpha 4 antibody was raised against a 15 amino acid synthetic peptide from near the center of human Integrin alpha 4. The immunogen is located within amino acids 220 - 270 of Integrin alpha 4.
Isotype:	IgG
Specificity:	At least two isoforms are known to exist. The immunogen to this antibody is within the Integrin alpha4 recombinant protein fragment and thus will recognize it.
Purification:	Integrin alpha 4 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	ITGA4
Alternative Name:	Integrin alpha 4 (ITGA4 Products)

Target Details

Background:	Integrin alpha 4 Antibody: The integrin alpha 4 (also known as CD49d and ITGA4) belongs to the integrin alpha chain family of proteins. Integrins are heterodimeric integral membrane proteins composed of an alpha and beta chains. Alpha4 chain associates with either beta1 or beta7 chain. It has been demonstrated that the putative ligand-binding sites of both integrin alpha4beta1 and alpha4beta7 is located on the alpha4 chain. These ligands included Madcam, VCAM, and fibronectin. Madcam is known as the principal ligand for integrin alpha4beta7. Recently it was also demonstrated that HIV-1 envelope can mimic Madcam by binding to and signaling through integrin alpha4beta7, the gut mucosal homing receptor for peripheral T cells.
Gene ID:	3676
NCBI Accession:	NP_000876
UniProt:	P13612
Pathways:	Integrin Complex

Application Details

Application Notes:	Integrin alpha 4 antibody can be used for the detection of Integrin alpha 4 by Western blot at 1 μg/mL. Despite its predicted molecular weight, Integrin alpha4 will often run at higher molecular weight in SDS-PAGE. Antibody can also be used for immunofluorescence starting at 2 μg/mL. Antibody validated: Western Blot in rat samples and Immunofluorescence in human samples. All other applications and species not yet tested.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Integrin alpha 4 Antibody is supplied in PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C, 4 °C

Handling

Storage Comment: Integrin alpha 4 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.