

Datasheet for ABIN500032
anti-ITGA4 antibody (Center)



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2 Images

1 Publication

Overview

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

Product Details

Immunogen:	Integrin alpha 4 antibody was raised against a 15 amino acid peptide from near the center of human Integrin alpha 4.
Isotype:	IgG
Specificity:	This antibody reacts to Integrin alpha 4.
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	ITGA4
Alternative Name:	CD49d / ITGA4 (ITGA4 Products)
Background:	The integrin alpha 4 (also known as CD49d and ITGA4) belongs to the integrin alpha chain

Target Details

family of proteins. Integrins are heterodimeric integral membrane proteins composed of an alpha and beta chains. Alpha 4 chain associates with either beta 1 or beta 7 chain. It has been demonstrated that the putative ligand-binding sites of both integrin alpha 4 beta 1 and alpha 4 beta 7 is located on the alpha 4 chain. These ligands included Madcam, VCAM, and fibronectin. Madcam is known as the principal ligand for integrin alpha 4 beta 7. Recently it was also demonstrated that HIV-1 envelope can mimic Madcam by binding to and signaling through integrin alpha 4 beta 7, the gut mucosal homing receptor for peripheral T cells. Despite its predicted molecular weight, Integrin alpha 4 will often run at higher molecular weight in SDS-PAGE. At least two isoforms are known to exist. The immunogen to this antibody is within the Integrin alpha 4 recombinant protein fragment and thus will recognize it. Synonyms: CD49 antigen-like family member D, Integrin alpha-4, Integrin alpha-IV, VLA-4, VLA4

Gene ID:	3676
UniProt:	P13612
Pathways:	Integrin Complex

Application Details

Application Notes:	ELISA. Western Blot: 0.5 - 1 µg/mL. Immunofluorescence. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

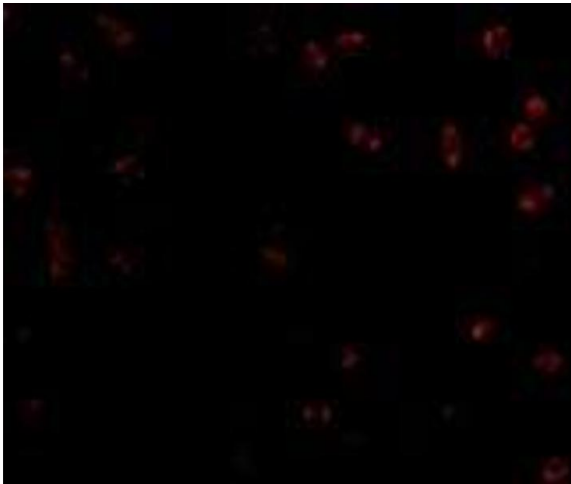
Buffer:	PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C.

Publications

Product cited in:	Gąciarz, Ruddock: "Complementarity determining regions and frameworks contribute to the disulfide bond independent folding of intrinsically stable scFv." in: PLoS ONE , Vol. 12, Issue 12,
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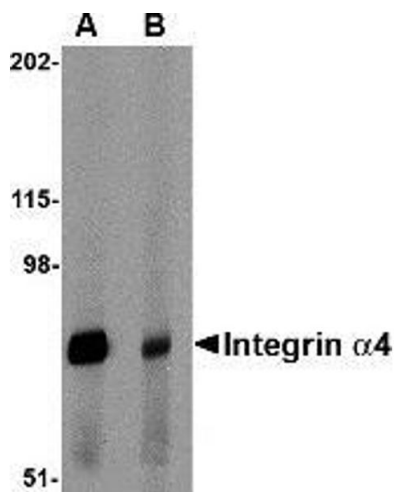
pp. e0189964, (2018) ([PubMed](#)).

Images



Immunofluorescence

Image 1. Immunofluorescence of Integrin alpha 4 in Jurkat cells with AP30436PU-N Integrin alpha 4 antibody at 2 μg/ml.



Western Blotting

Image 2. Western blot analysis of Integrin alpha 4 in rat spleen tissue lysate with Integrin alpha 4 antibody at 1 μg/ml in (A) the absence and (B) the presence of blocking peptide.