

Product datasheet for **TA306659**

Integrin alpha 4 (ITGA4) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 1 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Integrin alpha 4 antibody was raised against a 15 amino acid peptide from near the center of human Integrin alpha 4.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	integrin subunit alpha 4
Database Link:	NP_000876 Entrez Gene 16401 Mouse Entrez Gene 311144 Rat Entrez Gene 3676 Human P13612



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Background:

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. 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:

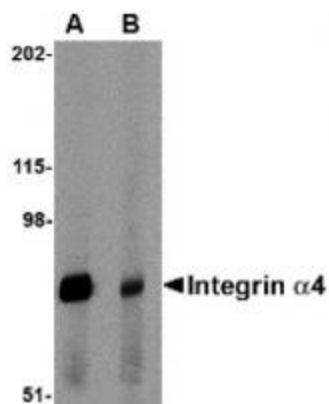
CD49D; IA4

Protein Families:

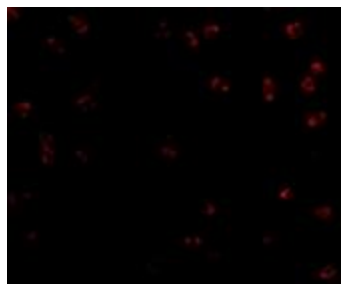
Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways:

Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cell adhesion molecules (CAMs), Dilated cardiomyopathy, ECM-receptor interaction, Focal adhesion, Hematopoietic cell lineage, Hypertrophic cardiomyopathy (HCM), Leukocyte transendothelial migration, Regulation of actin cytoskeleton

Product images:

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



Immunofluorescence of Integrin alpha 4 in Jurkat cells with Integrin alpha 4 antibody at 2 ug/mL.