

Rabbit ITGA4 / VLA-4 / CD49d Polyclonal Antibody | anti-ITGA4 antibody

Rabbit Polyclonal to Human ITGA4 / VLA-4 / CD49d

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA51968	Rabbit	Human, Mouse, Rat	Western Blot, Immunofluorescence, Immunohistochemistry

PRODUCT SYNONYMS

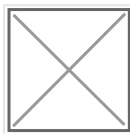
ITGA4 / VLA-4 / CD49d; Polyclonal Antibody; Rabbit Polyclonal to Human ITGA4 / VLA-4 / CD49d; Anti-ITGA4 / VLA-4 / CD49d Antibody (Internal) IHC-plus; ITGA4; 269C wild type; CD49D; IA4; Integrin alpha-4; Integrin alpha 4; Integrin alpha-4 subunit; Integrin alpha-IV; VLA-4; VLA-4 subunit alpha; CD49d antigen; Human ITGA4; CD49d; anti-ITGA4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
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.
Purity/Purification	Peptide Column Affinity Chromatography
Form/Format	PBS, 0.02% sodium azide
Concentration	1mg/mL (varies by lot)
Sequence Length	1032
Applicable Applications for anti-ITGA4 antibody	WB (Western Blot), IF (Immunofluorescence), IHC (Immunohistochemistry)
Immunogen Type	Synthetic peptide
Immunogen Species	ITGA4 / VLA-4 / CD49d was raised against Human.
Immunogen	ITGA4 / VLA-4 / CD49d antibody was raised against a 15 amino acid peptide from near the center of human Integrin alpha 4. The immunogen is located within aa220-270 of integrin alpha 4.
Family/Subfamily	Integrin / not assigned-integrin
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

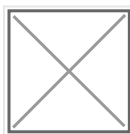
Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip
Preparation and Storage	Store at 4°C (3 months), Long term Storage: -20°C. Avoid repeated freeze/thaw cycles.

IMAGES



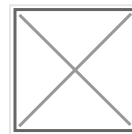
WB (Western Blot)

Western blot 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.



IHC (Immunohistochemistry)

Anti-ITGA4 / Integrin Alpha 4 antibody IHC of human spleen. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml.



IF (Immunofluorescence)

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

ADDITIONAL INFORMATION

Related Product Information for anti-ITGA4 antibody	Integrin alpha 4 antibody can be used for the detection of Integrin alpha 4 by Western blot at 1 ug/mL. Despite its predicted molecular weight, Integrin alpha4 will often run at higher molecular weight in SDS-PAGE. Antibody can also be used for immunoflourescence starting at 2 ug/mL. Antibody validated: Western Blot in rat samples and Immunofluorescence in human samples. All other applications and species not yet tested.
Product Categories/Family for anti-ITGA4 antibody	Family: Integrin

NCBI AND UNIPROT INFORMATION

NCBI GI #	67191027
NCBI GeneID	3676
NCBI Accession #	NP_000876.3
NCBI GenBank Nucleotide #	NM_000885.4
UniProt Accession #	P13612 ; Q7Z4L6 ; D3DPG4 ; AAB25486
NCBI Official Full Name	integrin alpha-4
NCBI Official Synonym Full Names	integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor)
NCBI Official Symbol	ITGA4
NCBI Official Synonym Symbols	IA4; CD49D
NCBI Protein Information	integrin alpha-4; 269C wild type; integrin alpha 4; integrin alpha-IV; VLA-4 subunit alpha; integrin alpha-4 subunit; CD49 antigen-like family member D; antigen CD49D, alpha-4 subunit of VLA-4 receptor; very late activation protein 4 receptor, alpha 4 subunit
UniProt Protein Name	Integrin alpha-4
UniProt Gene Name	ITGA4
UniProt Synonym Gene Names	CD49D
UniProt Entry Name	ITA4_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/itga4-vla-4-cd49d-antibody-western-blot-immunofluorescence-immunohistochemistry-elisa/51968>