

Mouse anti-Human ITGA6/Integrin Alpha 6/CD49f Monoclonal Antibody | anti-ITGA6 antibody

Mouse Monoclonal (IgG1) to Human ITGA6/Integrin Alpha 6/CD49f

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA52546	Mouse	Human	Flow Cytometry, Functional Assay, Western Blot, Immunofluorescence, Immunohistochemistry

PRODUCT SYNONYMS

ITGA6/Integrin Alpha 6/CD49f; Monoclonal Antibody; Mouse Monoclonal (IgG1) to Human ITGA6/Integrin Alpha 6/CD49f; Anti-ITGA6/Integrin Alpha 6/CD49f Antibody IHC-plus; ITGA6; CD49f; CD49f antigen; Integrin alpha6B; Integrin; alpha 6; Integrin alpha-6 precursor; VLA-6; Integrin alpha-6; ITGA6B; Human ITGA6/Integrin Alpha 6/CD49f; anti-ITGA6 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Specificity	Human CD49f (IHC-P data suggests that this antibody may be specific for CD49f isoform X1X2).
Purity/Purification	Protein G Purified
Form/Format	Tissue Culture Supernatant, PBS, pH 7.2, 0.09% Sodium Azide
Sequence Length	1073
Applicable Applications for anti-ITGA6 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), IF (Immunofluorescence), IHC (Immunohistochemistry)
Target	Human ITGA6/Integrin Alpha 6/CD49f
Immunogen Species	ITGA6/Integrin Alpha 6/CD49f antibody was raised against Human
Epitope	aa324-620
Immunogen	ITGA6/Integrin Alpha 6/CD49f antibody was raised against recombinant protein encoding amino acids 324-620
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	Maintain refrigerated at 2-8°C. For long term storage store at -20°C.

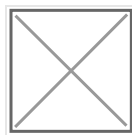
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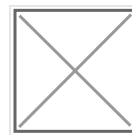
WB (Western Blot)
Western blot of anti-ITA6 in HepG2 cell line lysates (35 ug/lane). ITA6 (arrow) was detected using the purified Mab.(8 ug/ml



FCM/FACS (Flow Cytometry)
ITA6 Monoclonal Antibody flow cytometry of HepG2 cells (right histogram) compared to a negative control cell (left histogram).PE-conjugated goat-anti-mouse secondary antibodies were used for the analysis.

**IF (Immunofluorescence)**

Confocal immunofluorescence of ITA6 Antibody with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-mouse IgG (green). DAPI was used to stain the cell nuclear (blue).

**IHC (Immunohistochemistry)**

Anti-ITGA6/Integrin Alpha 6/CD49f antibody IHC staining of human heart. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody dilution 1:50.

ADDITIONAL INFORMATION

Related Product Information for anti-ITGA6 antibody	The ITGA6 protein product is the integrin alpha chain alpha 6. Integrins are integral cell-surface proteins composed of an alpha chain and a beta chain. A given chain may combine with multiple partners resulting in different integrins. For example, alpha 6 may combine with beta 4 in the integrin referred to as TSP180, or with beta 1 in the integrin VLA-6. Integrins are known to participate in cell adhesion as well as cell-surface mediated signalling.
Product Categories/Family for anti-ITGA6 antibody	Family: Integrin

NCBI AND UNIPROT INFORMATION

NCBI GI #	119395742
NCBI GeneID	3655
NCBI Accession #	NP_000201.2
NCBI GenBank Nucleotide #	NM_000210.2
UniProt Accession #	P23229 ; Q08443 ; Q0MRC7 ; Q14646 ; Q16508 ; Q53RX7 ; Q59HB7 ; B2RMU9 ; B4DG69 ; B4DKB8 ; C4AM96 ; G5E9H1
NCBI Official Full Name	integrin alpha-6 isoform b
NCBI Official Synonym Full Names	integrin, alpha 6
NCBI Official Symbol	ITGA6
NCBI Official Synonym Symbols	CD49f; VLA-6; ITGA6B
NCBI Protein Information	integrin alpha-6; integrin alpha6B; CD49 antigen-like family member F
UniProt Protein Name	Integrin alpha-6
UniProt Gene Name	ITGA6
UniProt Synonym Gene Names	Alpha6p
UniProt Entry Name	ITA6_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/monoclonal/itga6-integrin-alpha-6-cd49f-antibody-flow-cytometry-western-blot-immunofluorescence-immunohistochemistry-elisa/52546>