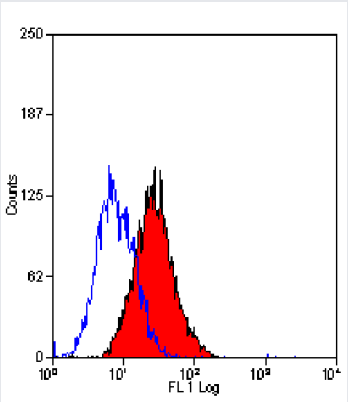
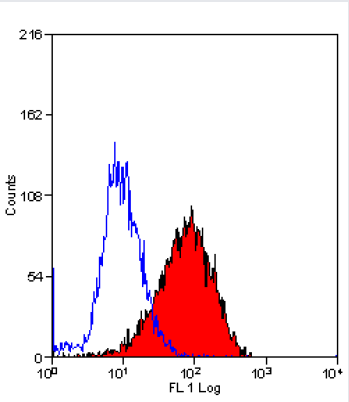
CD49a Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

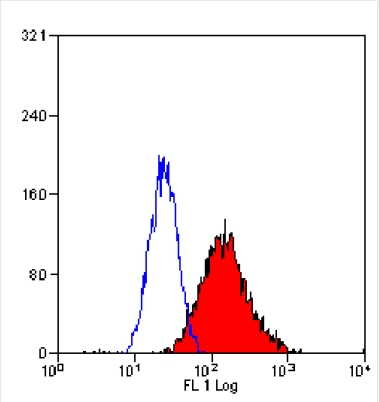
Product Name	CD49a, Monoclonal Antibody
Full Product Name	MOUSE ANTI HUMAN CD49a:FITC
Product Gene Name	anti-CD49a antibody
Clonality	Monoclonal
Isotype	IgG1
Clone Number	TS2/7
Host	Mouse
Form/Format	FITC Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid
Concentration	IgG concentration 0.1 mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.
Molecular Weight	130,848 Da
OMIM	192968
3D Structure	ModBase 3D Structure for P56199
Perservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin Preparation||Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Target Species	Human
Applications Tested/Suitable for anti-CD49a antibody	Flow cytometry (FC/FACS)
Application Notes for anti-CD49a antibody	Flow Cytometry: Use 10ul of the suggested working dilution to label 106 cells in 100ul. **Flow Cytometry:** Minimum Dilution: Neat; Maximum Dilution: 1/5
Related Product Information for anti-CD49a antibody	Mouse anti Human CD49a antibody, clone TS2/7 recognizes the human alpha 1 integrin sub-unit, which forms the VLA-1 heterodimer in association with the beta 1 integrin. VLA-1 is a receptor for collagen and laminin, and is expressed by chronically activated T cells, melanoma cells and smooth muscle cells. Mouse anti Human CD49a antibody, clone TS2/7 has been reported as being suitable for use in Western Blotting. Mouse anti Human CD49a antibody, clone TS2/7 is routinely tested in flow cytometry using HeLa cells.
Other Notes	Small volumes of anti-CD49a antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD49a purchase	MBS210620 is an antibody targeting CD49a. Also known as MOUSE ANTI HUMAN CD49a:FITC. Host: Mouse.



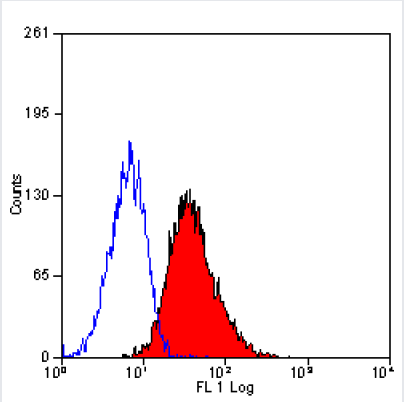
Testing Data of anti-CD49a antibody
Staining of HeLa cells with Mouse anti Human CD49a (MBS210309)



Testing Data of anti-CD49a antibody
Staining of HeLa cells with Mouse anti Human CD49a (MBS212035)



Testing Data of anti-CD49a antibody
Staining of HeLa cells with Mouse anti Human CD49a: Alexa Fluor 488 (MBS216814A488)



Testing Data of anti-CD49a antibody
Staining of HeLa cells with Mouse anti Human CD49a:FITC

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD49a. It may not necessarily be applicable to this product.

NCBI GI #	31657142
NCBI GeneID	3672
NCBI Accession #	NP_852478.1
UniProt Primary Accession #	P56199
UniProt Secondary Accession #	B2RNU0
UniProt Related Accession #	P56199
GenBank Nucleotide #	NM_181501.1
NCBI Official Full Name	integrin alpha-1
NCBI Official Synonym Full Names	integrin, alpha 1
NCBI Official Symbol	ITGA1
NCBI Official Synonym Symbols	VLA1; CD49a
UniProt Protein Name	Integrin alpha-1
UniProt Synonym Protein Names	CD49 antigen-like family member A; Laminin and collagen receptor; VLA-1; CD_antigen: CD49a
Protein Family	Integrin
UniProt Gene Name	ITGA1

UniProt Entry Name	ITA1_HUMAN
NCBI Protein Information	integrin alpha-1; CD49 antigen-like family member A; VLA-1; laminin and collagen receptor; very late activation protein 1
NCBI Summary for CD49a	This gene encodes the alpha 1 subunit of integrin receptors. This protein heterodimerizes with the beta 1 subunit to form a cell-surface receptor for collagen and laminin. The heterodimeric receptor is involved in cell-cell adhesion and may play a role in inflammation and fibrosis. The alpha 1 subunit contains an inserted (I) von Willebrand factor type I domain which is thought to be involved in collagen binding. [provided by RefSeq, Jul 2008]
UniProt Comments for CD49a	ITGA1: Integrin alpha-1/beta-1 is a receptor for laminin and collagen. It recognizes the proline-hydroxylated sequence G-F-P-G- E-R in collagen. Belongs to the integrin alpha chain family. Protein type: Membrane protein, integral; Motility/polarity/chemotaxis; Cell adhesion Chromosomal Location of Human Ortholog: 5q11.2 Cellular Component: neuron projection; focal adhesion; cell surface; membrane; plasma membrane; acrosome; perikaryon; integrin complex; lipid raft; external side of plasma membrane Molecular Function: collagen binding; protein binding; metal ion binding; protein phosphatase binding; receptor binding Biological Process: positive regulation of phosphoprotein phosphatase activity; negative regulation of epidermal growth factor receptor signaling pathway; integrin-mediated signaling pathway; axon guidance; neutrophil chemotaxis; extracellular matrix organization and biogenesis; activation of MAPK activity; cell-matrix adhesion; vasodilation; negative regulation of cell proliferation; cellular extravasation; muscle contraction; positive regulation of neuron apoptosis; blood coagulation
Research Articles on CD49a	**1.** miR-101:DNMT-3B interaction modulates integrin alpha-1 epigenetically.
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