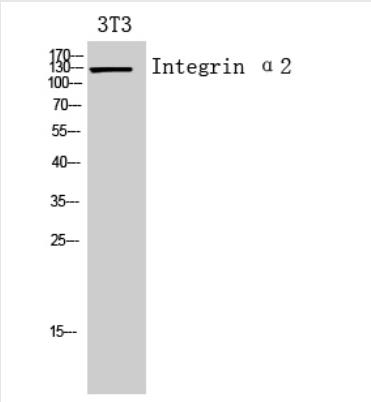
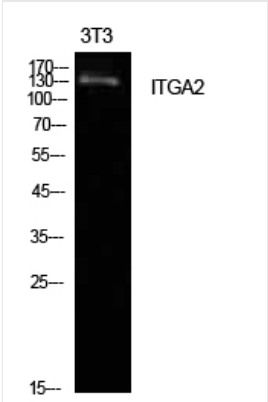
Integrin Alpha2 (ITGA2) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Integrin alpha2 (ITGA2), Polyclonal Antibody
Full Product Name	Integrin alpha2 Polyclonal Antibody
Product Gene Name	anti-ITGA2 antibody
Product Synonym Names	Integrin a2 Polyclonal Antibody; ITGA2; CD49B; Integrin alpha-2; CD49 antigen-like family member B; Collagen receptor; Platelet membrane glycoprotein Ia; GPIa; VLA-2 subunit alpha; CD49b
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1 mg/ml (lot specific)
Specificity	Integrin a2 Polyclonal Antibody detects endogenous levels of Integrin a2 protein.
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	129,295 Da
OMIM	192974
3D Structure	ModBase 3D Structure for P17301
Immunogen Type	peptide
Immunogen Description	Synthesized peptide derived from the C-terminal region of human Integrin a2.
Target Name	Integrin a2
Product Categories/Family for anti-ITGA2 antibody	Total protein Ab
Applications Tested/Suitable for anti-ITGA2 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-ITGA2 antibody	Western Blot: 1:500 - 1:2000 ELISA: 1:10000 Not yet tested in other applications.
Related Product Information for anti-ITGA2 antibody	MBS9414726 is an antibody targeting ITGA2. Also known as Integrin alpha2 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-ITGA2 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.



Western Blot (WB) of anti-ITGA2 antibody
Western Blot analysis of 3T3 cells using Integrin a2 Polyclonal Antibody



Western Blot (WB) of anti-ITGA2 antibody
Western Blot analysis of NIH-3T3 cells using Integrin a2 Polyclonal Antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ITGA2. It may not necessarily be applicable to this product.

NCBI GI #	116295258
NCBI GeneID	3673
NCBI Accession #	NP_002194.2
UniProt Primary Accession #	P17301
UniProt Secondary Accession #	Q14595
UniProt Related Accession #	P17301
GenBank Nucleotide #	NM_002203.3
NCBI Official Full Name	integrin alpha-2
NCBI Official Synonym Full Names	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)
NCBI Official Symbol	ITGA2
NCBI Official Synonym Symbols	BR; GPIa; CD49B; HPA-5; VLA-2; VLAA2
UniProt Protein Name	Integrin alpha-2
UniProt Synonym Protein Names	CD49 antigen-like family member B; Collagen receptor; Platelet membrane glycoprotein Ia; GPIa; VLA-2 subunit alpha; CD_antigen: CD49b
Protein Family	Integrin
UniProt Gene Name	ITGA2
UniProt Synonym Gene Names	CD49B; GPIa
UniProt Entry Name	ITA2_HUMAN
NCBI Protein Information	integrin alpha-2
NCBI Summary for ITGA2	This gene encodes the alpha subunit of a transmembrane receptor for collagens and related proteins. The encoded protein forms a heterodimer with a beta subunit and mediates the adhesion of platelets and other cell types to the extracellular matrix. Loss of the encoded protein is associated with bleeding disorder platelet-type 9. Antibodies against this protein are found in several immune disorders, including neonatal alloimmune thrombocytopenia. This gene is located adjacent to a related alpha subunit gene. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]

UniProt Comments for ITGA2	ITGA2: Integrin alpha-2/beta-1 is a receptor for laminin, collagen, collagen C-propeptides, fibronectin and E-cadherin. It recognizes the proline-hydroxylated sequence G-F-P-G-E-R in collagen. It is responsible for adhesion of platelets and other cells to collagens, modulation of collagen and collagenase gene expression, force generation and organization of newly synthesized extracellular matrix. Belongs to the integrin alpha chain family. Protein type: Cell adhesion; Motility/polarity/chemotaxis; Membrane protein, integral; Receptor, misc. Chromosomal Location of Human Ortholog: 5q11.2 Cellular Component: cell surface; focal adhesion; perinuclear region of cytoplasm; plasma membrane; nerve terminal; nucleus; integrin complex; external side of plasma membrane Molecular Function: integrin binding; viral receptor activity; collagen binding; protein binding; protein heterodimerization activity; metal ion binding; laminin binding Biological Process: axon guidance; extracellular matrix organization and biogenesis; response to muscle activity; entry of virus into host cell; positive regulation of cell adhesion; positive regulation of positive chemotaxis; positive regulation of translation; positive regulation of leukocyte migration; positive regulation of smooth muscle cell proliferation; cell-matrix adhesion; positive regulation of collagen biosynthetic process; positive regulation of collagen binding; positive regulation of cell projection organization and biogenesis; mesodermal cell differentiation; positive regulation of smooth muscle cell migration; response to organic cyclic substance; response to L-ascorbic acid; establishment of protein localization; mammary gland development; positive regulation of smooth muscle contraction; cell adhesion; positive regulation of DNA binding; substrate-bound cell migration; response to drug; integrin-mediated signaling pathway; skin morphogenesis; hypotonic response; cell-substrate adhesion; cellular response to hormone stimulus; detection of mechanical stimulus involved in sensory perception of pain; cell proliferation; organ morphogenesis; response to hypoxia; cell adhesion mediated by integrin; positive regulation of phagocytosis, engulfment; blood coagulation; response to amine stimulus; positive regulation of transmission of nerve impulse; positive regulation of inflammatory response Disease: Bleeding Disorder, Platelet-type, 9
Research Articles on ITGA2	**1.** CD34 and CD49b are cell surface markers that can be used to enrich a subpopulation of leiomyoma cells possessing stem/progenitor cell properties.
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