Integrin Beta 1 (ITGb1) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Integrin Beta 1 (ITGb1), Polyclonal Antibody
Full Product Name	APC-Linked Polyclonal Antibody to Integrin Beta 1 (ITGb1)
Product Gene Name	anti-ITGb1 antibody
Product Synonym Names	CD29; MSK12; ITG-B1; FNRB; GPIIA; MDF2; MSK12; VLAB; Fibronectin Receptor Beta Polypeptide; Antigen CD29 Includes MDF2; Glycoprotein IIa; VLA-4 subunit beta
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Concentration	>=100ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: ITGb1 (MBS2003004) APC Conjugated Antibody: ITGb1 (MBS2050891)
Matching Pairs	APC Conjugated Antibody: ITGb1 (MBS2050891) Immunogen: ITGb1 (MBS2011562)
Molecular Weight	88,884 Da
OMIM	X07979 mRNA
3D Structure	ModBase 3D Structure for P05556
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	ITGb1 (Asp140~Ile383)
Conjugation	APC
Cross Reactivity	Human
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2003004
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-ITGb1 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-ITGb1 antibody	MBS2050891 is an antibody targeting ITGb1. Also known as APC-Linked Polyclonal Antibody to Integrin Beta 1 (ITGb1). Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-ITGb1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ITGb1. It may not necessarily be applicable to this product.

NCBI GI #	218563324
NCBI GeneID	3688

NCBI Accession #	P05556.2
UniProt Primary Accession #	P05556
UniProt Secondary Accession #	P78466; P78467; Q13089; Q13090; Q13091; Q13212; A8K6N2; D3DRX9; D3DRY3; D3DRY4; D3DRY5
UniProt Related Accession #	P05556
NCBI Official Full Name	Integrin beta-1
NCBI Official Synonym Full Names	integrin subunit beta 1
NCBI Official Symbol	ITGB1
NCBI Official Synonym Symbols	CD29; FNRB; MDF2; VLAB; GPIIA; MSK12; VLA-BETA
UniProt Protein Name	Integrin beta-1
UniProt Synonym Protein Names	Fibronectin receptor subunit beta; Glycoprotein IIa; GPIIA; VLA-4 subunit beta; CD_antigen: CD29
Protein Family	Integrin
UniProt Gene Name	ITGB1
UniProt Synonym Gene Names	FNRB; MDF2; MSK12; GPIIA
NCBI Protein Information	integrin beta-1
NCBI Summary for ITGb1	Integrins are heterodimeric proteins made up of alpha and beta subunits. At least 18 alpha and 8 beta subunits have been described in mammals. Integrin family members are membrane receptors involved in cell adhesion and recognition in a variety of processes including embryogenesis, hemostasis, tissue repair, immune response and metastatic diffusion of tumor cells. This gene encodes a beta subunit. Multiple alternatively spliced transcript variants which encode different protein isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for ITGb1	ITGB1: an integral membrane protein that heterodimerizes with an alpha-3 chain, forming a receptor for many extracellular-matrix proteins including fibronectin, laminin, collagen, epiligrin and thrombospondin. . Beta 1 integrins recognize the amino-acid motif RGD in a wide array of ligands. Five alternatively spliced variants with alternate carboxy termini have been described. Two alternatively spliced isoforms have been described. Isoform beta-1a is widely expressed; other isoforms are generally expressed with a more restricted distribution. Isoform beta-1b is expressed in skin, liver, skeletal muscle, cardiac muscle, placenta, umbilical vein endothelial cells, neuroblastoma cells, lymphoma cells, hepatoma cells and astrocytoma cells. Isoforms beta-1c and beta-1c-2 are expressed in muscle, kidney, liver, placenta, cervical epithelium, umbilical vein endothelial cells, fibroblast cells, embryonal kidney cells, platelets and several blood cell lines. Isoform beta-c-2, rather than isoform beta-1c, is selectively expressed in primary t-cells. Isoform beta-1c is expressed in nonproliferating and differentiated prostate gland epithelial cells. Isoform beta-1d is expressed specifically in striated muscle (skeletal and cardiac muscle). Protein type: Cell adhesion; Cell surface; Membrane protein, integral; Motility/polarity/chemotaxis; Receptor, misc. Chromosomal Location of Human Ortholog: 10p11.22 Cellular Component: cell surface; cell-cell adherens junction; cytoplasm; filopodium; focal adhesion; lipid raft; membrane; neuromuscular junction; plasma membrane; receptor complex; ruffle; sarcolemma Molecular Function: actin binding; C-X3-C chemokine binding; cell adhesion molecule binding; coreceptor activity; fibronectin binding; protease binding; protein binding; protein complex binding; protein heterodimerization activity Biological Process: B cell differentiation; calcium-independent cell-matrix adhesion; cell adhesion mediated by integrin; cell migration; cell-cell adhesion mediated by integrin; cell-matrix adhesion; cell-substrate adhesion; cellular defense response; extracellular matrix organization and biogenesis; heterotypic cell-cell adhesion; homophilic cell adhesion; integrin-mediated signaling pathway; leukocyte adhesion; leukocyte migration; leukocyte tethering or rolling; mesodermal cell differentiation; positive regulation of apoptosis; positive regulation of GTPase activity; receptor internalization; regulation of immune response; stress fiber formation; transforming growth factor beta receptor signaling pathway
Research Articles on ITGb1	**1.** interaction of C. trachomatis Ctad1 with integrin beta1 mediates EB adhesion and induces signaling processes that promote host-cell invasion.

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