

Mouse Integrin beta 1D Monoclonal Antibody | anti-ITGB1 antibody

Mouse anti Integrin beta 1D

CATALOG # AAA77493	HOST Mouse	REACTIVITY Canine, Human, Mouse, Swine	APPLICATIONS Western Blot, Immunohistochemistry, Immunocytochemistry
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PRODUCT SYNONYMS

Integrin beta 1D; Monoclonal Antibody; Mouse anti Integrin beta 1D; anti-ITGB1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Canine, Human, Mouse, Swine
Clonality	Monoclonal
Isotype	IgG1
Clone Number	2B1
Specificity	2B1 recognizes specifically the cytoplasmic domain of integrin subunit beta1D present in cardiac and skeletal muscle.
Form/Format	Each vial contains 100 ul 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.
Applicable Applications for anti-ITGB1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry)
Source Note	2B1 is a Mouse monoclonal IgG1, kappa antibody derived by fusion of SP2/0 Mouse myeloma cells with spleen cells from a Mouse immunized with a synthetic peptide corresponding to the C-terminal 24 amino acids of integrin beta1D including an appending N-terminal cysteine (CQENPIYKS-PINNFKNPYGRKAGL) coupled to keyhole limpet hemocyanin.
Reactivity Note	A broad species reactivity is expected because of the conserved nature of the epitope.
Preparation and Storage	Store at 4 degree C, or in small aliquots at -20 degree C.

IMAGES



Application Data

Fig.2: Negative control: only secondary antibody applied.



Application Data

Fig.1: Frozen sections of porcine myocardium immunostained for integrin β 1D using a 1:200 dilution of 2B1

ADDITIONAL INFORMATION

Related Product Information for anti-ITGB1 antibody	Integrins are a family of heterodimeric membrane glycoproteins consisting of non-covalently associated alpha and beta subunits. More than 18 alpha and 8 beta subunits with numerous splice variant isoforms have been identified in mammals. In general, integrins function as receptors for extracellular matrix proteins. Certain integrins can also bind to soluble ligands or to counter-receptors on adjacent cells, such as the intracellular adhesion molecules (ICAMs), resulting in aggregation of cells. Signals transduced by integrins play a role in many biological processes, including cell growth, differentiation, migRation and apoptosis. There are two major forms of integrin beta1: beta1A and beta1D, which differ in 13 amino acids. Their distribution pattern in adult tissues is mutually exclusive. beta1A is present in all tissues, except cardiac and skeletal muscle, which instead express the beta1D variant.
Product Categories/Family for anti-ITGB1 antibody	Cell adhesion; Cardiovascular; Cell adhesion
References	van der Flier, A., Gaspar, A. C., Thorsteinsdottir, S., Baudoin, C., Groeneveld, E., Mummery, C. L., and Sonnenberg, A. (1997). Spatial and temporal expression of the beta1D integrin during Mouse development, Dev Dyn 210, 472-86.

NCBI AND UNIPROT INFORMATION

NCBI GI #	19743819
NCBI GeneID	3688
NCBI Accession #	NP_391988.1
NCBI GenBank Nucleotide #	NM_033668.2
UniProt Accession #	P05556; P78466; P78467; Q13089; Q13090; Q13091; Q13212; A8K6N2; D3DRX9; D3DRY3; D3DRY4; D3DRY5
Molecular Weight	88,415 Da
NCBI Official Full Name	integrin beta-1 isoform 1D
NCBI Official Synonym Full Names	integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)
NCBI Official Symbol	ITGB1
NCBI Official Synonym Symbols	CD29; FNRB; MDF2; VLAB; GPIIA; MSK12; VLA-BETA
NCBI Protein Information	integrin beta-1; glycoprotein IIa; integrin VLA-4 beta subunit; very late activation protein, beta polypeptide
UniProt Protein Name	Integrin beta-1
UniProt Gene Name	ITGB1
UniProt Synonym Gene Names	FNRB; MDF2; MSK12; GPIIA
UniProt Entry Name	ITB1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/integrin-beta-1d-antibody-clone-2b1-western-blot-immunohistochemistry-immunocytochemistry-elisa/77493>