

Product datasheet for **BM6028P**

Integrin beta 1 (ITGB1) (beta-1D Isoform) Mouse Monoclonal Antibody [Clone ID: 2B1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2B1
Applications:	IF, IHC, WB
Recommended Dilution:	Immunoblotting: 1/100-1/1000 Immunocytochemistry. Flow Cytometry. Immunohistochemistry on Frozen Tissues: 1/25 -1/200 with ABC as detection reagent.
Reactivity:	Canine, Human, Mouse, Porcine
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	A synthetic peptide corresponding to the C-terminal 24 amino acids of integrin b1D including an appending N-terminal cysteine coupled to keyhole limpet hemocyanin.
Specificity:	2B1 recognizes specifically the cytoplasmic domain of integrin subunit b1D present in cardiac and skeletal muscle.
Formulation:	PBS with 0.09% Sodium Azide as preservative State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin subunit beta 1
Database Link:	Entrez Gene 3688 Human P05556



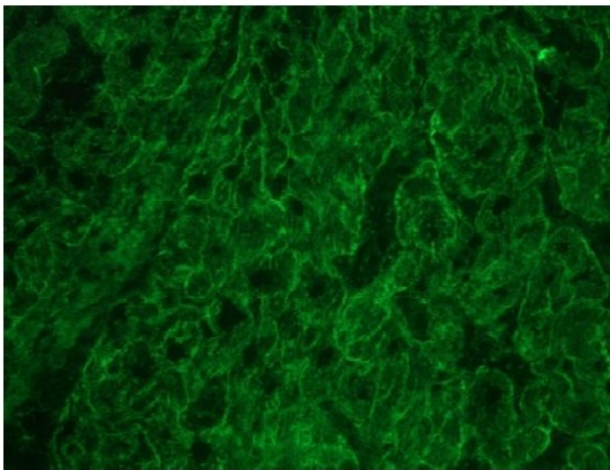
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Background:

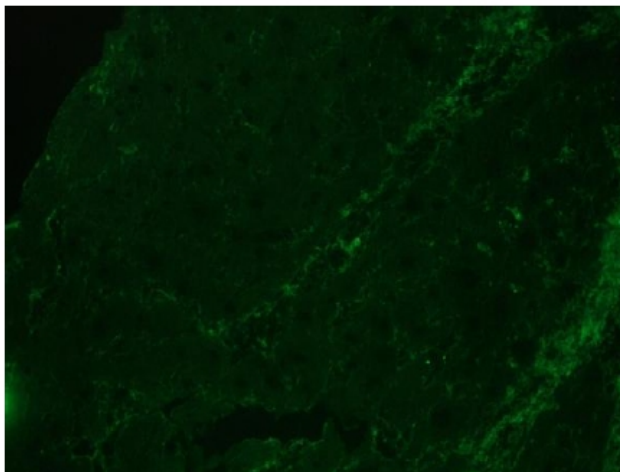
Integrins are a family of heterodimeric membrane glycoproteins consisting of non-covalently associated alpha and beta subunits. More than 18 alpha and 8 beta subunits with numerous splice variant isoforms have been identified in mammals. In general, integrins function as receptors for extracellular matrix 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.

Synonyms:

Fibronectin receptor subunit beta, Integrin VLA-4 subunit beta, ITGB1, FNRB, MDF2, MSK12

Product images:

Frozen Sections of Porcine myocardium immunostained for integrin b1D using a 1/200 dilution of 2B1



Negative Control: only secondary antibody applied.