Datasheet for ABIN335351

anti-Integrin Beta1D antibody

1 Publication

Go to Product page

Overview

Quantity:	0.1 mg
Target:	Integrin Beta1D (LOC395211)
Reactivity:	Human, Mouse, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Integrin Beta1D antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	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- PINNFKNPNYGRKAGL) coupled to keyhole limpet hemocyanin.
Clone:	2B1
Isotype:	IgG1
Specificity:	Human, mouse and dog. A broad species reactivity is expected because of the conserved nature of the epitope.
Purification:	Purified

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Target Details

Target:	Integrin Beta1D (LOC395211)
Alternative Name:	Integrin beta 1D (LOC395211 Products)
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.

Application Details

Application Notes:	2B1 recognizes specifically the cytoplasmic domain of integrin subunit beta1D present in cardiac and skeletal muscle. 2B1 is suitable for immunoblotting, immunocytochemistry and immunohistochemistry on frozen tissues. Optimal antibody dilution should be determined by titration, recommended range is 1:25 - 1:200 for immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and 1:100 - 1:1000 for immunoblotting applications.
Restrictions:	For Research Use only

Handling

Storage:	4 °C

Publications

Product cited in:	van der Flier, Gaspar, Thorsteinsdóttir, Baudoin, Groeneveld, Mummery, Sonnenberg: "Spatial and temporal expression of the beta1D integrin during mouse development." in: **Developmental dynamics : an official publication of the American Association of Anatomists**, Vol. 210, Issue 4, pp. 472-86, (1998) (PubMed).

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