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Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Mouse anti Integrin beta 1D

Catalogue number: **MUB0906P**

Clone	2B1
Isotype	IgG1
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse
Species reactivity	Dog Human Mouse Swine
Application	Immunoblotting Immunocytochemistry Immunohistochemistry (frozen)

Distributors

For Purchasing Information, please contact your local distributor

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Background

Integrins are a family of heterodimeric membrane glycoproteins consisting of non-covalently associated α and β subunits. More than 18 α and 8 β 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 β 1: β 1A and β 1D, which differ in 13 amino acids. Their distribution pattern in adult tissues is mutually exclusive. β 1A is present in all tissues, except cardiac and skeletal muscle, which instead express the β 1D variant.

Source

2B1 is a Mouse monoclonal IgG1, κ 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 β 1D including an appending N-terminal cysteine (CQENPIYKS-PINNFKNPYGRKAGL) coupled to keyhole limpet

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

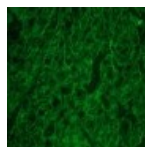
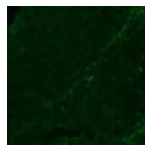


Fig.2 Negative control- only secondary antibody applied.



hemocyanin.

Product

Each vial contains 100 ul 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

Applications

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.

Cross Reactivity

A broad species reactivity is expected because of the conserved nature of the epitope.

Specificity

2B1 recognizes specifically the cytoplasmic domain of integrin subunit β 1D present in cardiac and skeletal muscle.

Storage

Store at 4°C, or in small aliquots at -20°C.

References

1. 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.

Caution

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water. This datasheet is as accurate as reasonably achievable, but Nordic-MUbio accepts no liability for any inaccuracies or omissions in this information.