Datasheet for ABIN335347

anti-Integrin alpha 3b antibody

1 Publication

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Overview

Quantity:	0.1 mg
Target:	Integrin alpha 3b
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Integrin alpha 3b antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunocytochemistry (ICC)

Product Details

Immunogen:	54B3 is a mouse monoclonal IgG1 antibody derived by fusion of SP2/0 mouse myeloma cells with spleen cells from a BALB/c mouse immunized with a synthetic peptide corresponding to a 32 amino acid stretch in the cytoplasmic domain of integrin alpha3B including an appending N-terminal cysteine (CTRYYQIMPKYHAVRIREEERYPPPGSTLPTKK) coupled to keyhole limpet hemocyanin.
Clone:	54B3
Isotype:	IgG1
Specificity:	Human. A broad species reactivity is expected because of the conserved nature of the epitope.
Purification:	Purified

Target Details

Target:	Integrin alpha 3b
Abstract:	Integrin alpha 3b 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. For integrin subunits alpha3 and alpha6, two cytoplasmic variants, A and B, have been identified.

Application Details

Application Notes:	54B3 recognizes specifically the cytoplasmic domain of integrin subunit alpha3B which is present in microvascular structures in brain and heart . 54B3 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:	de Melker, Sterk, Delwel, Fles, Daams, Weening, Sonnenberg: "The A and B variants of the alpha 3 integrin subunit: tissue distribution and functional characterization." in: **Laboratory investigation; a journal of technical methods and pathology**, Vol. 76, Issue 4, pp. 547-63, (1997) (PubMed).