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Datasheet for ABIN335345

anti-Integrin alpha 3a antibody

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Overview

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

Product Details

Immunogen:	29A3 is a mouse monoclonal IgG1, kappa 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 the cytoplasmic domain of the integrin subunit alpha3A including an additional N-terminal cysteine (CRTRALYEAKRQKAEMKSPSETERLTDDY) coupled to keyhole limpet hemocyanin.
Clone:	29A3
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 3a
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Target Details

Abstract: [Integrin alpha 3a 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: 29A3 recognizes specifically the cytoplasmic domain of integrin subunit alpha3A which is present in the basal cell layer in skin, glomeruli, Bowman's capsules and distal tubuli in kidney, all vascular and capillary endothelia in brain, heart and skin, and vascular smooth muscle cells in heart. 29A3 is suitable for immunoblotting, immunocytochemistry and immunohistochemistry on frozen tissues. Optimal antibody dilution should be determined by titration, recommended range is 1:100 - 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

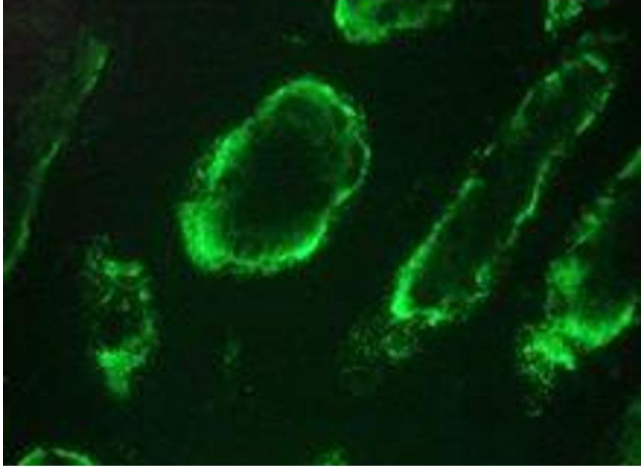
Handling

Storage: 4 °C

Publications

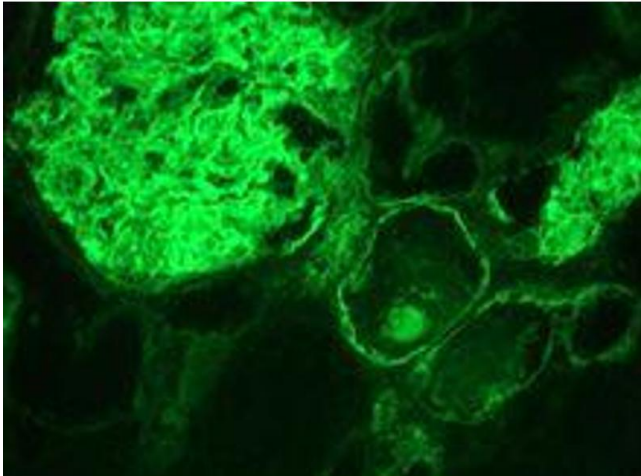
Product cited in: de Melker, Sterk, Delwel, Fles, Daams, Weening, Sonnenberg: "The A and B variants of the alpha 3 integrin subunit: tissue distribution and functional characterization." in: **Laboratory investigation; a journal of technical methods and pathology**, Vol. 76, Issue 4, pp. 547-63, (1997) ([PubMed](#)).

Delwel, de Melker, Hogervorst, Jaspars, Fles, Kuikman, Lindblom, Paulsson, Timpl, Sonnenberg: "Distinct and overlapping ligand specificities of the alpha 3A beta 1 and alpha 6A beta 1 integrins: recognition of laminin isoforms." in: **Molecular biology of the cell**, Vol. 5, Issue 2, pp. 203-15, (1994) ([PubMed](#)).



Immunohistochemistry (Frozen Sections)

Image 1. Immunohistochemistry on frozen section of human kidney



Immunohistochemistry (Frozen Sections)

Image 2. Immunohistochemistry on frozen section of human kidney