

Anti-Integrin alpha 3a antibody [29A3] ab8985

[1 References](#) [1 Image](#)

Overview

Product name	Anti-Integrin alpha 3a antibody [29A3]
Description	Mouse monoclonal [29A3] to Integrin alpha 3a
Host species	Mouse
Specificity	29A3 recognizes specifically the cytoplasmic domain of integrin subunit $\alpha 3A$ 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.
Tested applications	Suitable for: IHC-Fr
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Integrin alpha 3a conjugated to keyhole limpet haemocyanin. Database link: P26006

 [Run BLAST with](#)

 [Run BLAST with](#)

Epitope Cytoplasmic domain of $\alpha 3A$ Integrin. Phospho-epitope.

General notes

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. For integrin subunits $\alpha 3$ and $\alpha 6$, two cytoplasmic variants, A and B, have been identified.

Source

29A3 is a Mouse monoclonal IgG1, κ 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 $\alpha 3A$ including an additional N-terminal cysteine (CTRALYEAKRQKAEMKSPSETERLTDDY) coupled to keyhole limpet hemocyanin.

Formulation: Each vial contains 100 μ l 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

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contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Constituent: PBS
Purity	Protein G purified
Primary antibody notes	The integrins, finally, form a large family of glycosylated transmembrane proteins that act as dimers of an alpha and a beta subunit in interconnecting the cytoskeleton and the extracellular matrix.
Clonality	Monoclonal
Clone number	29A3
Myeloma	Sp2/0
Isotype	IgG1
Light chain type	kappa

Applications

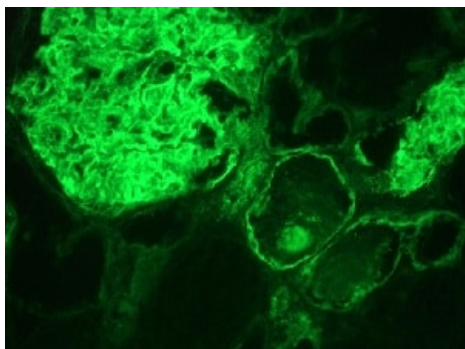
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Application	Abreviews	Notes
IHC-Fr		Use at an assay dependent concentration. Recommended range is 1:100 - 1:200 for immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent.

Target

Relevance	Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. Alpha chain 3 undergoes post-translational cleavage in the extracellular domain to yield disulfide-linked light and heavy chains that join with beta 1 to form an integrin that interacts with many extracellular-matrix proteins.
Cellular localization	Cell Membrane

Images



Immunohistochemistry on frozen section of human kidney

Immunohistochemistry (Frozen sections) - Anti-
Integrin alpha 3a antibody [29A3] (ab8985)

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