

## MOUSE ANTI-INTEGRIN ALPHA 3A MONOCLONAL ANTIBODY

**CATALOG NUMBER:** MAB2290

**LOT NUMBER:**

**QUANTITY:** 100 µg

**CONCENTRATION:** 1 mg/mL

**SPECIFICITY:** Anti-integrin alpha 3A (MAB2290) recognizes specifically the cytoplasmic domain of integrin subunit alpha 3A which is present in the basal 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.

**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 alpha 3 and alpha 6, two cytoplasmic variants, A and B, have been identified.

**PRODUCT DESCRIPTION:** MAB2290 is a mouse monoclonal generated to a synthetic peptide in the cytoplasmic domain of integrin alpha 3A.

**IMMUNOGEN:** Synthetic peptide corresponding to the cytoplasmic domain of the integrin subunit alpha 3A including an additional N-terminal cysteine:  
CRTRALYEAKRQKAEMKSPSETERLTDDY

**HOST:** Mouse

**CLONE NAME:** 29A3

**APPLICATIONS:** Western Blot  
Immunocytochemistry  
Immunohistochemistry (Frozen Sections)  
Optimal working dilutions must be determined by the end user.

**SPECIES REACTIVITIES:** Human. Although untested, a broad range of species reactivity is expected due to the conserved nature of the epitope.

**FORMAT:** Purified



**PRESENTATION:** Liquid in PBS containing 0.01% sodium azide.

**STORAGE/  
HANDLING:** Store at 2-8, or in small aliquots at -20.

**REFERENCES:**

1. Delwel, G.O., de Melker, A.A., Hogervorst, F., Jaspars, L.H., Fles, D.L., Kuikman, I., Lindblom, A., Paulsson, M., Timpl, R., and Sonnenberg, A. 1994. Distinct and overlapping ligand specificities of the alpha 3a, beta 1 and alpha 6A beta 1 integrins: recognition of laminin isoforms, *Mol Biol Cell* 5, 203-15.
2. de Melker, A.A., Sterk, L.M., Delwel, G.O., Fles, D.L., Daams, H., Weening, J.J., and Sonnenberg, A. 1997. The A and B variants of the alpha 3 integrin subunits: tissue distribution and functional characterization, *Lab Invest* 76, 547-63.

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200  $\mu$ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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