

Integrin α 2b (D8V7H) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H	Endogenous	137	Rabbit IgG	#P08514	3674

Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C . Do not aliquot the antibody.

Specificity/Sensitivity

Integrin α 2b (D8V7H) Rabbit mAb recognizes endogenous levels of total integrin α 2b protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human integrin α 2b protein.

Background

Integrins are α/β heterodimeric cell surface receptors that play a pivotal role in cell adhesion and migration, as well as in growth and survival (1,2). The integrin family contains at least 18 α and 8 β subunits that form 24 known integrins with distinct tissue distribution and overlapping ligand specificities (3). Integrins not only transmit signals to cells in response to the extracellular environment (outside-in signaling), but also sense intracellular cues to alter their interaction with the extracellular environment (inside-out signaling) (1,2).

Integrin α 2b is a cell-surface adhesion molecule that undergoes proteolytic cleavage to yield disulfide-linked heavy and light chains, which together with glycoprotein IIIb, forms a major fibrinogen receptor in activated platelets (3). Mutations in the corresponding *ITGA2B* gene can result in Glanzmann thrombasthenia, a bleeding disorder characterized by lack of platelet aggregation (4,5).

Background References

- Hood, J.D. and Cheresh, D.A. (2002) *Nat Rev Cancer* 2, 91-100.
- Liu, S. et al. (2000) *J Cell Sci* 113 (Pt 20), 3563-71.
- Calvete, J.J. et al. (1990) *FEBS Lett* 272, 37-40.
- Vannier, C. et al. (2010) *Klin Padiatr* 222, 150-3.
- Nurden, A.T. et al. (2011) *Blood* 118, 5996-6005.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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