

Integrin  $\alpha$ 2b Antibody

**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

### Product Usage Information

#### Application

Western Blotting

#### Dilution

1:1000

### Storage

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

### Specificity/Sensitivity

Integrin  $\alpha$ 2b Antibody recognizes endogenous levels of total integrin  $\alpha$ 2b protein.

### Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human integrin  $\alpha$ 2b protein. Antibodies are purified by protein A and peptide affinity chromatography.

### Background

Integrins are  $\alpha/\beta$  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  $\alpha$  and 8  $\beta$  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  $\alpha$ 2b is a cell-surface adhesion molecule that undergoes proteolytic cleavage to yield disulfide-linked heavy and light chains, which together with glycoprotein IIb forms a major fibrinogen receptor in activated platelets (3). Researchers have shown a link between mutations in the ITGA2B and Glanzmann's thrombasthenia (GT), a platelet function defect characterized by lack of platelet aggregation (4,5).

### Background References

1. Hood, J.D. and Cheresch, D.A. (2002) *Nat Rev Cancer* 2, 91-100.
2. Liu, S. et al. (2000) *J Cell Sci* 113 ( Pt 20), 3563-71.
3. Calvete, J.J. et al. (1990) *FEBS Lett* 272, 37-40.
4. Vannier, C. et al. (2010) *Klin Padiatr* 222, 150-3.
5. 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

### Cross-Reactivity Key

**H:** Human

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