

<b>#9028</b> Store at -20C	Integrin $\alpha$ 2b Antibody	
	<b>Orders:</b> 877-616-CELL (2355) orders@cellsignal.com	
	<b>Support:</b> 877-678-TECH (8324)	
	<b>Web:</b> info@cellsignal.com cellsignal.com	
<b>3 Trask Lane   Danvers   Massachusetts   01923   USA</b>		

**For Research Use Only. Not for Use in Diagnostic Procedures.**

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 IIIb 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

- Hood, J.D. and Cheresch, 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

#### Cross-Reactivity Key

**H:** Human

#### Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit [cellsignal.com/trademarks](http://cellsignal.com/trademarks) for more information.

#### Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for

diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.

**Orders: 877-616-CELL (2355) • orders@cellsignal.com • Support: 877-678-TECH (8324) • info@cellsignal.com • Web: cellsignal.com**  
For Research Use Only. Not for Use in Diagnostic Procedures.