

Store at
-20°C
#88300**Integrin β 8 (D1V7M) Rabbit mAb**
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

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	M	Endogenous	98	Rabbit IgG	#Q0VBD0	320910

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

StorageSupplied 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 β 8 (D1V7M) Rabbit mAb recognizes endogenous levels of total integrin β 8 protein.**Source / Purification**Monoclonal antibody is produced by immunizing animals with recombinant mouse integrin β 8 protein.**Background**

Integrin α v β 8 facilitates activation and release of TGF- β , which has immunosuppressive effects (1). Deletion of integrin β 8 from dendritic cells led to development of inflammatory bowel disease and autoimmunity in mice, as well as failure to induce regulatory T cells that require TGF- β for development (2). TGF- β is also involved in Th17 cell differentiation. Mice lacking expression of integrin β 8 on dendritic cells fail to develop Th17 cells and are protected from Th17-mediated autoimmune disease (3). Regulatory T cells express high levels of integrin α v β 8, which enables them to suppress pathogenic T cell activation by activating latent TGF- β (4). Integrin β 8 is also essential for vascular morphogenesis as integrin β 8-deficient mice are embryonic or perinatal lethal and exhibit insufficient and abnormal vascular morphogenesis (5).

Background References

1. Mu, D. et al. (2002) *J Cell Biol* 157, 493-507.
2. Travis, M.A. et al. (2007) *Nature* 449, 361-5.
3. Melton, A.C. et al. (2010) *J Clin Invest* 120, 4436-44.
4. Worthington, J.J. et al. (2015) *Immunity* 42, 903-15.
5. Zhu, J. et al. (2002) *Development* 129, 2891-903.

Species Reactivity

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

Western Blot BufferIMPORTANT: 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****M:** Mouse**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 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.