

#88300 Store at -20°C

Integrin β 8 (D1V7M) Rabbit mAb



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

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

Product Usage Information

Application

Western Blotting

Dilution

1:1000

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 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 5 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 5 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 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

WB: Western Blotting

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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