

Spi-B (D4V9S) Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

877-678-TECH (8324) Support:

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 44	Source/Isotype: Rabbit IgG	UniProt ID: #Q01892	Entrez-Gene Id: 6689
Product Usage Information	e	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity		Spi-B (D4V9S) Rabbit mAb recognizes endogenous levels of total Spi-B protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Spi-B protein.				
Background		Spi-B belongs to the ETS family of transcription factors and activates transcription through direct binding to the PU box (1). Spi-B was identified based on its homology with PU.1/Spi-I (1). The function of Spi-B is most well studied in B cells and plasmacytoid dendritic cells (pDCs). B cells from mice deficient in Spi-B proliferate poorly and die in response to signaling through the B cell receptor (2). In addition, Spi-B ^(-/-) mice have a defect in germinal center formation (2). Spi-B plays a role in both the development and function of pDCs. It is highly expressed by pDCs and not by monocyte-derived DCs, and overexpression of Spi-B in hematopoietic progenitor cells inhibits development of other lymphoid lineages (3). pDCs from Spi-B ^(-/-) mice produce less interferon in response to TLR7 and TLR9 stimulation and have lower expression of pDC-specific surface markers (4). Finally, Spi-B is required for differentiation of intestinal microfold cells (5,6).				
Background R	eferences	1. Ray, D. et al. (1992) <i>Mol Cell Biol</i> 12, 4297-304. 2. Su, G.H. et al. (1997) <i>EMBO J</i> 16, 7118-29. 3. Schotte, R. et al. (2003) <i>Blood</i> 101, 1015-23. 4. Sasaki, I. et al. (2012) <i>Blood</i> 120, 4733-43. 5. Kanaya, T. et al. (2012) <i>Nat Immunol</i> 13, 729-36. 6. de Lau, W. et al. (2012) <i>Mol Cell Biol</i> 32, 3639-47.				

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

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X **Western Blot Buffer**

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse

Trademarks and Patents Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

XP is a registered 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.