

#14323 Store at -20°C

Spi-B (D3C5E) Rabbit mAb



Cell Signaling
TECHNOLOGY®

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:
IP, IF-IC, FC-FP	H	Endogenous	44	Rabbit IgG	#Q01892	6689

Product Usage Information

Application

Immunoprecipitation
Immunofluorescence (Immunocytochemistry)
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:100
1:200
1:100 - 1:400

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. *Do not aliquot the antibody.*

Specificity / Sensitivity

Spi-B (D3C5E) 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 surrounding Ala86 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-1 (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 References

1. Ray, D. et al. (1992) *Mol Cell Biol* 12, 4297-304.
2. Su, G.H. et al. (1997) *EMBO J* 16, 7118-29.
3. Schotte, R. et al. (2003) *Blood* 101, 1015-23.
4. Sasaki, I. et al. (2012) *Blood* 120, 4733-43.
5. Kanaya, T. et al. (2012) *Nat Immunol* 13, 729-36.
6. de Lau, W. et al. (2012) *Mol Cell Biol* 32, 3639-47.

Species Reactivity

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

Applications Key

IP: Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)
FC-FP: Flow Cytometry (Fixed/Permeabilized)

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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