

Spi-B (D3C5E) Rabbit mAb

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Applications: IP, IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 44	Source/Isotype: Rabbit IgG	UniProt ID: #Q01892	Entrez-Gene Id: 6689
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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-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 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

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