

Mouse Spi-B Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF7204

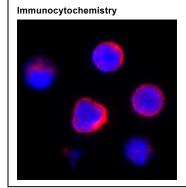
DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse Spi-B in direct ELISAs. In direct ELISAs, less than 2% cross-reactivity with recombinant human Spi-B is observed.		
Source	Polyclonal Sheep IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant mouse Spi-B Tyr18-Glu167 (Tyr110Phe) Accession # O35906		
Formulation	n Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

APPLICATIONS

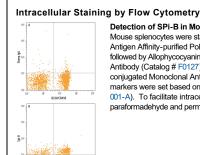
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Immunocytochemistry	5-15 μg/mL	See Below
Intracellular Staining by Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



Spi-B in Mouse Splenocytes. Spi-B was detected in immersion fixed mouse splenocytes using Sheep Anti-Mouse Spi-B Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7204) at 15 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights ™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NLD10) and counterstained with DAPI (blue). Specific staining was localized to plasma membranes and cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.



Detection of SPi-B in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes were stained with Sheep Anti-Mouse Spi-B Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7204) followed by Allophycocyanin-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # F0127) and Rat Anti-Mouse B220/CD45R PEconjugated Monoclonal Antibody (Catalog # FAB1217P). Quadrant markers were set based on control antibody staining (Catalog # 5-001-A). To facilitate intracellular staining, cells were fixed with paraformadehyde and permeabilized with saponin.

PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.2 mg/mL.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Spi-B (Transcription factor Spi-B) is a 33-45 kDa member of the ets family of transcription factors. It is found in hematopoietic cells such as B cells and plasmacytoid dendritic cells (DC). In transitional B cells, Spi-B promotes their differentiation into follicular (naïve) B cells. In hematopoietic stem cells, Spi-B stimulates the generation of IFN-producing plasmacytoid DC at the expense of T, B and NK cell development. Mouse Spi-B is 267 amino acids (aa) in length. It contains a dual transactivation region (aa 1-62), plus a PEST domain (aa 110-170) and an Ets DNA-binding domain (aa 174-257). There are two isoform variants. One shows a nine aa substitution for aa 1-8, while a second possesses an 18 aa insertion after Leu17. Over aa 18-167, mouse Spi-B shares 91% and 74% aa identity with rat and human Spi-B, respectively.

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