Human Spi-B Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 769653

Catalog Number: FAB7576R

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Spi-B in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse Spi-B is observed.
Source	Monoclonal Mouse IgG_{2B} Clone # 769653
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human Spi-B Ala7-Leu115 Accession # Q01892
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

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. The 262 amino acid (aa) human Spi-B contains a dual transactivation region (aa 1-62) and an ets DNA-binding domain (aa 169-252). One 177 aa variant diverges after aa 162. Over aa 7-115, human Spi-B shares 72% and 70% aa identity with mouse and rat Spi-B, respectively.

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