Mouse PU.1/Spi-1 Alexa Fluor® 594-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF7124T
100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse PU.1/Spi-1 in direct ELISAs and Western blots. In direct ELISAs, approximately 30% cross-reactivity with recombinant human Spi-1 is observed, and less than 1% cross-reactivity with recombinant mouse Spi-B is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant mouse PU.1/Spi-1 Met1-Lys169 Accession # P17433
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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

Spi1 (SFFV proviral integration 1 protein; also PU.1 and Sfpi1) is a 37-41 kDa member of the *ets* family of transcription factors. It is both an RNA and DNA binding protein that is found in hematopoietic cells such as B cells, neutrophils, macrophages and dendritic cells (DC). Spi1 can act as both a transcriptional activator and repressor. In DC, Spi1 promotes the expression of CD80, CD86 and CD11b, while in proerythroblasts, it blocks GATA-1 induced transcriptional activation. Spi1 binds to DNA as a monomer, and interacts with multiple factors such as Runx-1, IRF8, GATA-1 and c-Jun. Mouse Spi1 is 272 amino acids (aa) in length. It contains a transactivation region (aa 7-117), a PEST domain (aa 118-164), and a DNA-binding domain (aa 165-266). Phosphorylation on Ser41, 142 and 148 increases activity. There is one alternative start site at Met7. Over aa 1-169, mouse Spi1 shares 88% and 81% aa identity with rat and human Spi1, respectively.

PRODUCT SPECIFIC NOTICES

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