

DESCRIPTION

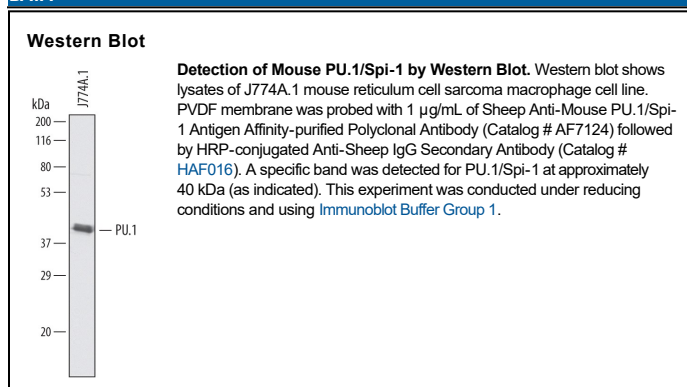
Species Reactivity	Mouse
Specificity	Detects mouse PU.1/Spi-1 in direct ELISAs and Western blots. In direct ELISAs, approximately 30% cross-reactivity with recombinant human Spi-1 is observed, and less than 1% cross-reactivity with recombinant mouse Spi-B is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse PU.1/Spi-1 Met1-Lys169 Accession # P17433
Formulation	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
Western Blot	1 µg/mL	See Below

DATA



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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 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

Spi1 (SFV proviral integration 1 protein; also PU.1 and Sp1) 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.