

# SPI1 antibody

Rabbit mAb

Catalog # AP91853

## Product Information

<b>Application</b>	WB, IHC, FC
<b>Primary Accession</b>	<a href="#">P17947</a>
<b>Reactivity</b>	Human
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	oncogene spi1; PU.1; SFPI1; SPI 1; SPI A; Spi1;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	31083

## Additional Information

<b>Dilution</b>	WB 1:1000~1:5000 IHC 1:50~1:200 FC 1:60
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human PU.1/Spi1
<b>Description</b>	Binds to the PU-box, a purine-rich DNA sequence (5'-GAGGAA-3') that can act as a lymphoid-specific enhancer. This protein is a transcriptional activator that may be specifically involved in the differentiation or activation of macrophages or B-cells. Also binds RNA and may modulate pre-mRNA splicing.
<b>Storage Condition and Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

## Protein Information

<b>Name</b>	SPI1
<b>Function</b>	Pioneer transcription factor, which controls hematopoietic cell fate by decompacting stem cell heterochromatin and allowing other transcription factors to enter otherwise inaccessible genomic sites. Once in open chromatin, can directly control gene expression by binding genetic regulatory elements and can also more broadly influence transcription by recruiting transcription factors, such as interferon regulatory factors (IRFs), to otherwise inaccessible genomic regions (PubMed: <a href="#">23658224</a> , PubMed: <a href="#">33951726</a> ). Transcriptionally activates genes important for myeloid and lymphoid lineages, such as CSF1R (By similarity). Transcriptional activation from certain promoters, possibly containing low affinity binding sites, is achieved cooperatively with other transcription factors. FCER1A transactivation is achieved in cooperation with GATA1 (By similarity). May be particularly important for the pro- to pre-B cell transition (PubMed: <a href="#">33951726</a> ). Binds (via the ETS domain) onto the purine-rich DNA core sequence 5'-GAGGAA-3', also

known as the PU-box (PubMed:[33951726](#)). In vitro can bind RNA and interfere with pre-mRNA splicing (By similarity).

#### Cellular Location

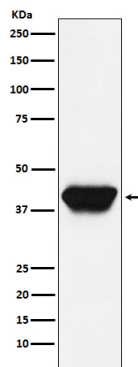
Nucleus {ECO:0000255 | PROSITE-ProRule:PRU00237, ECO:0000269 | PubMed:33951726}

#### Tissue Location

In the bone marrow, concentrated in hematopoietic stem cell, lymphoid progenitor, myeloid lineage (granulocyte macrophage progenitors, classical dendritic cells, monocytes) and B-cell clusters Among B-cells, predominantly expressed in pre-B1 cells (PubMed:33951726). Expressed in germinal center B-cells (PubMed:23166356).

## Images

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Western blot analysis of PU.1/Spi1 expression in Daudi cell lysate.

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