

**SPI1 Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM8640b****Specification**

---

**SPI1 Antibody - Product Information**

Application	WB,E
Primary Accession	<a href="#">P17947</a>
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1,k
Calculated MW	31083

**SPI1 Antibody - Additional Information****Gene ID** 6688**Other Names**

Transcription factor PU.1, 31 kDa-transforming protein, SPI1

**Target/Specificity**

This SPI1 antibody is generated from a mouse immunized with a recombinant protein of human SPI1.

**Dilution**

WB~~1:500-1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

SPI1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**SPI1 Antibody - Protein Information****Name** SPI1

**Function** 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:[23658224](#), PubMed:[33951726](#)). 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:[33951726](#)). 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

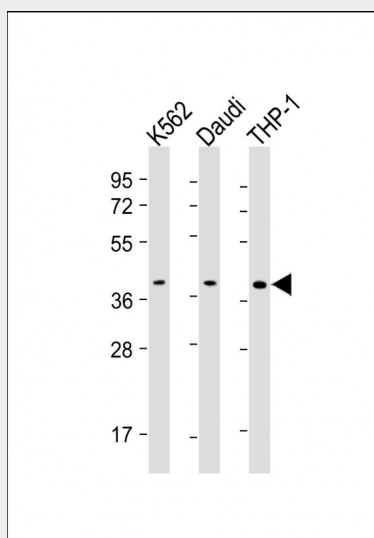
In the bone marrow, concentrated in hematopoietic stem cell, lymphoid progenitor, myeloid lineage (granulocyte macrophage progenitors, classical dendritic cells, monocytes) and B-cell clusters Among B-cells, predominantly expressed in pre-B1 cells (PubMed:33951726). Expressed in germinal center B-cells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

### SPI1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### SPI1 Antibody - Images



All lanes : Anti-SPI1 Antibody at 1:500-1:1000 dilution Lane 1: K562 whole cell lysate Lane 2: Daudi whole cell lysate Lane 3: THP-1 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 31 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

**SPI1 Antibody - Background**

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 (By similarity).

**SPI1 Antibody - References**

Ray D.,et al.Oncogene 5:663-668(1990).  
Ray D.,et al.Oncogene 5:1611-1612(1990).  
Li W.B.,et al.Submitted (FEB-2001) to the EMBL/GenBank/DDBJ databases.  
Taylor T.D.,et al.Nature 440:497-500(2006).  
Rao S.,et al.J. Biol. Chem. 274:11115-11124(1999).