

SPIB Antibody
Catalog # ASC11917**Specification**

SPIB Antibody - Product Information

Application	WB, IHC
Primary Accession	Q01892
Other Accession	NP_003112 , 61888836
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 19, 25, 29 kDa; Observed: 20 kDa
Application Notes	SPIB antibody can be used for detection of SPIB by Western blot at 1 - 2 µg/ml. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL.

SPIB Antibody - Additional InformationGene ID **6689****Target/Specificity**

SPIB; SPIB antibody is human, mouse and rat reactive. At least four isoforms of SPIB are known to exist; this antibody will detect all but isoform 3.

Reconstitution & Storage

SPIB antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

Precautions

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

SPIB Antibody - Protein Information**Name** SPIB**Function**

Sequence specific transcriptional activator which binds to the PU-box, a purine-rich DNA sequence (5'-GAGGAA-3') that can act as a lymphoid-specific enhancer. Promotes development of plasmacytoid dendritic cells (pDCs), also known as type 2 DC precursors (pre-DC2) or natural interferon (IFN)-producing cells. These cells have the capacity to produce large amounts of interferon and block viral replication. May be required for B-cell receptor (BCR) signaling, which is necessary for normal B-cell development and antigenic stimulation.

Cellular Location

[Isoform 1]: Nucleus

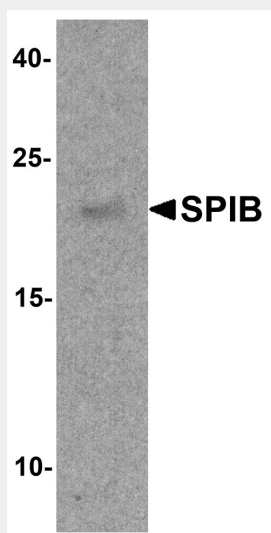
Tissue Location

Expressed in plasmacytoid dendritic cells (pDCs) and B-cells, not expressed in T-cells or granulocytes. May also be enriched in stem cell populations of the liver

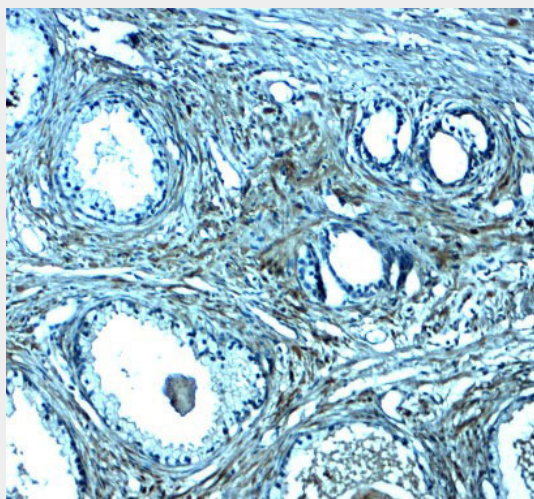
SPIB Antibody - Protocols

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](#)

SPIB Antibody - Images

Western blot analysis of SPIB in human prostate tissue lysate with SPIB antibody at 1 µg/ml.



Immunohistochemistry of SPIB in human prostate tissue with SPIB antibody at 2.5 µg/mL.

SPIB Antibody - Background

SPIB is a member of the ETS transcription factor family that influences lymphoid development and activity and binds the consensus DNA site GGA (A/T) through a unique winged helix-turn-helix motif known as the ETS domain (1). SPIB is found in hematopoietic cells such as B cells and plasmacytoid dendritic cells (DC) (2,3). It promotes the development of plasmacytoid dendritic cells (pDCs) or natural interferon (IFN)-producing cells. SPIB may be required for B-cell receptor (BCR) signaling, which is necessary for normal B-cell development and antigenic stimulation (3,4).

SPIB Antibody - References

Ray D, Bosselut R, Ghysdael J, et al. Characterization of Spi-B, a transcription factor related to the putative oncoprotein Spi-1/PU.1. *Mol. Cell Biol.* 1992; 12:4297-304.

Nagy M, Chapuis B, and Matthes T. Expression of transcription factors Pu.1, Spi-B, Blimp-1, BSAP and oct-2 in normal human plasma cells and in multiple myeloma cells. *Br. J. Haematol.* 2002; 116:429-35.

Schotte R, Rissoan MC, Bendriss-Vermare N, et al. The transcription factor Spi-B is expressed in plasmacytoid DC precursors and inhibits T-, B-, and NK-cell development. *Blood* 2003; 101:1015-23.

Schotte R, Nagasawa M, Weijer K, et al. The ETS transcription factor Spi-B is required for human plasmacytoid dendritic cell development. *J. Exp. Med.* 2004; 200:1503-9.