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SPIB Antibody
Catalog # ASC11917

Specification

SPIB Antibody - Product Information

Application	**WB, IHC, E**
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 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 Information

Gene 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℃ for three months and -20℃, 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

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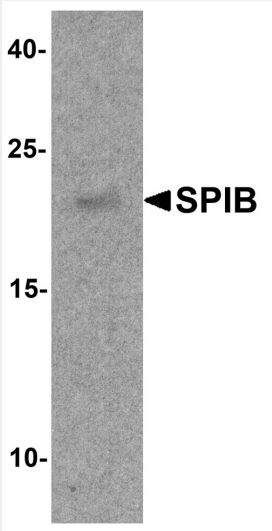
Tissue Location
Expressed in plasmacytoid dendritic cells (pDCs) and B-cells, not expressed in T-cells or granulocytes. May also be enriched in stem cell populations of the liver

SPIB Antibody - Protocols

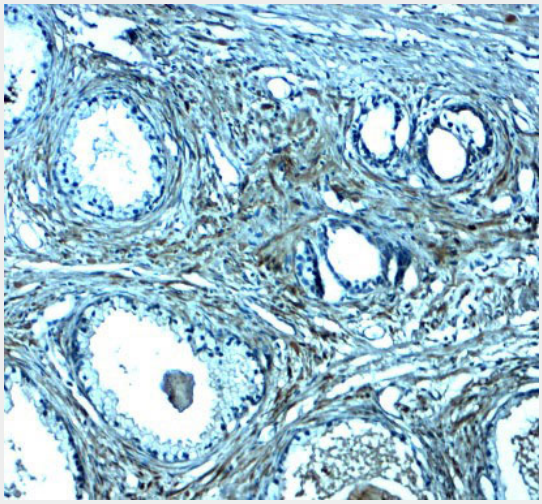
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SPIB Antibody - Images



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



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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.