10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

SPIB Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1754a

Specification

SPIB Antibody - Product Information

Application	**E, WB, IF, FC, IHC**
Primary Accession	Q01892
Reactivity	**Human, Mouse**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**28.8kDa KDa**

Description
The protein encoded by this gene is a transcriptional activator that binds to the PU-box (5'-GAGGAA-3') and acts as a lymphoid-specific enhancer. Four transcript variants encoding different isoforms have been found for this gene.

Immunogen
Purified recombinant fragment of human SPIB (AA: 200-252) expressed in E. Coli.

Formulation
Ascitic fluid containing 0.03% sodium azide.

SPIB Antibody - Additional Information

Gene ID 6689

Other Names
Transcription factor Spi-B, SPIB

Dilution
E~~1/10000
WB~~1/500 - 1/2000
IF~~1/200 - 1/1000
FC~~1/200 - 1/400
IHC~~1/200 - 1/1000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

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

SPIB Antibody - Protein Information

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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.

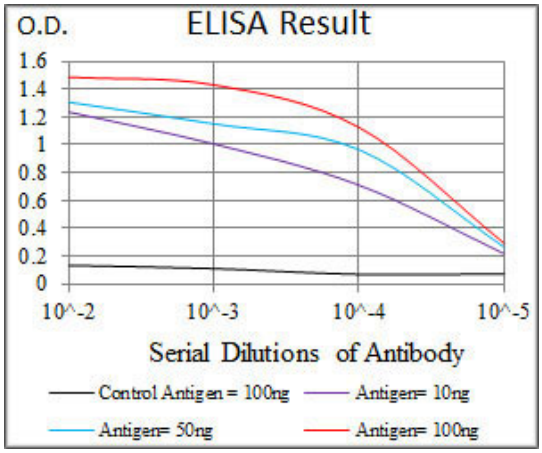
Cellular Location
[Isoform 1]: Nucleus

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 Cytomety
- Cell Culture



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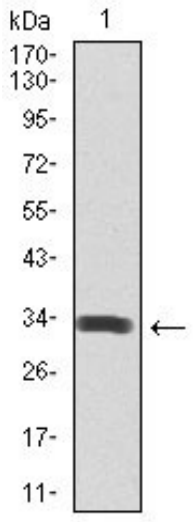

Figure 1: Western blot analysis using SPIB mAb against human SPIB recombinant protein. (Expected MW is 32 kDa)

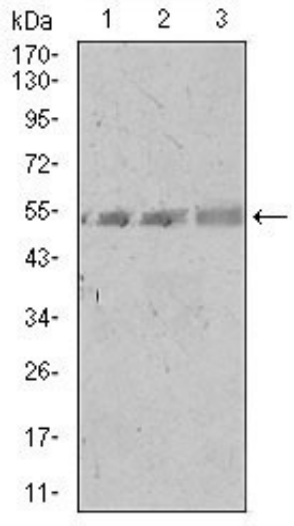

Figure 2: Western blot analysis using SPIB mouse mAb against A549 (1), PC-3 (2), and NIH3T3 (3) cell lysate.

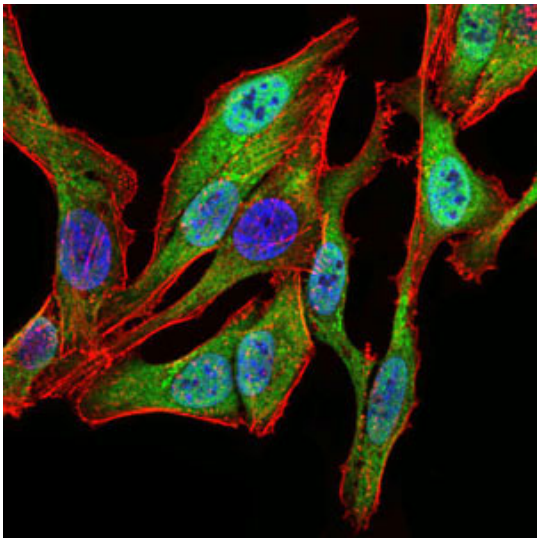

Figure 3: Immunofluorescence analysis of HeLa cells using SPIB mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

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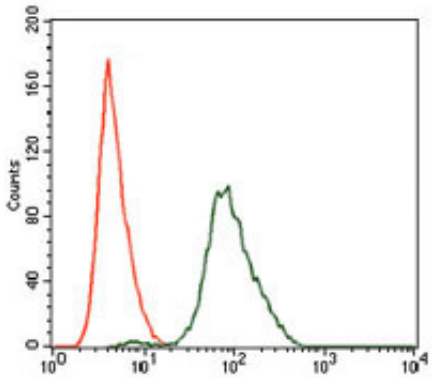

Figure 4: Flow cytometric analysis of NIH3T3 cells using SPIB mouse mAb (green) and negative control (red).

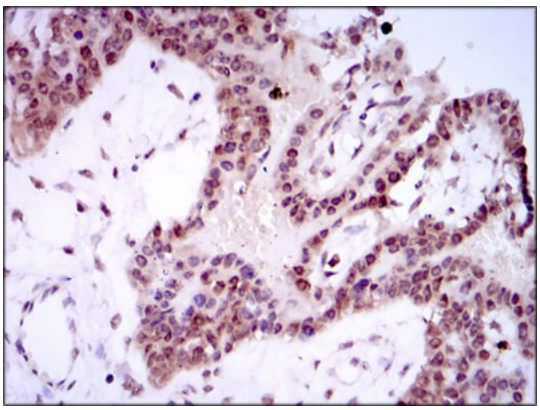

Figure 5: Immunohistochemical analysis of paraffin-embedded ovarian cancer tissues using SPIB mouse mAb with DAB staining.

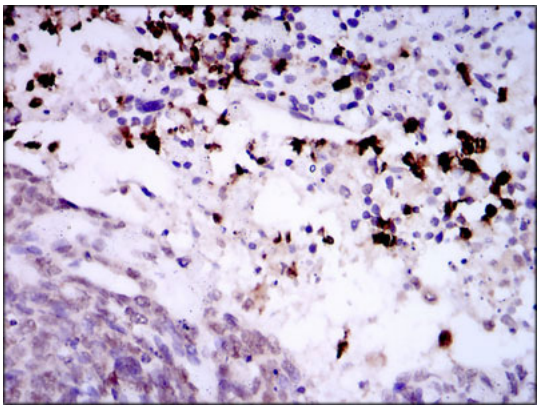

Figure 6: Immunohistochemical analysis of paraffin-embedded esophageal cancerwith DAB staining.

SPIB Antibody - References

1.J Gen Virol. 2010 Dec;91(Pt 12):3042-52.2.Eur J Immunol. 2008 Sep;38(9):2389-400.