10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SPIB Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1754a

Product Information

Application	WB, IHC, FC, ICC, E
Primary Accession	Q01892
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Clone Names	4G5
Isotype	IgG1
Calculated MW	28819
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.

Additional Information

Gene ID	6689
Other Names	Transcription factor Spi-B, SPIB
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A E~~1/10000
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.

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

References

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

Images

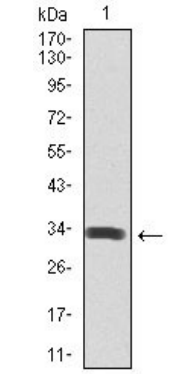


Figure 1: Western blot analysis using SPIB mAb against human SPIB recombinant protein. (Expected MW is 32 kDa)

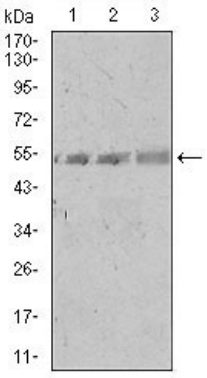


Figure 2: Western blot analysis using SPIB mouse mAb against A549 (1), PC-3 (2), and NIH3T3 (3) cell lysate.

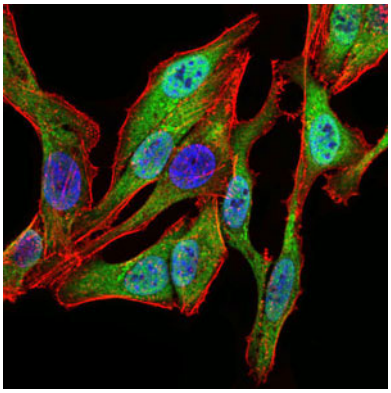
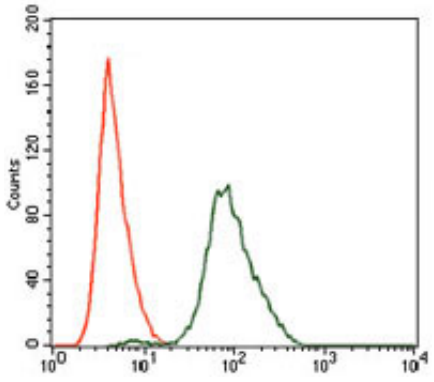


Figure 3: Immunofluorescence analysis of HeLa cells using SPIB mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

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



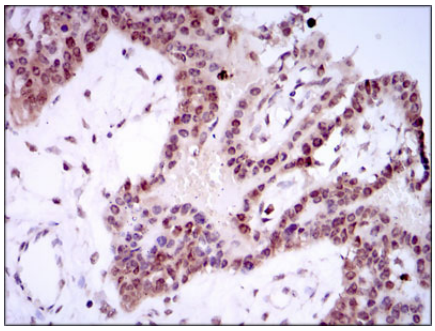


Figure 5: Immunohistochemical analysis of paraffin-embedded ovarian cancer tissues using SPIB mouse mAb with DAB staining.

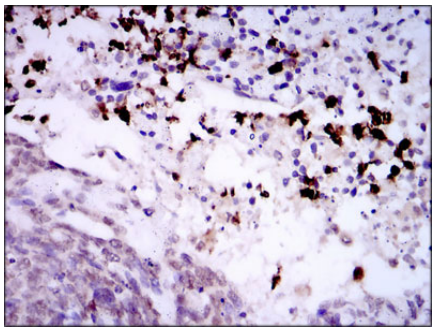


Figure 6: Immunohistochemical analysis of paraffin-embedded esophageal cancerwith DAB staining.

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