SPIB

CONTACT INFORMATION:	Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas
STATUS:	Validated
TYPE:	mouse anti human
CLONE NAME:	235D
PROTEIN:	Human SPIB
PROTEIN WEB:	http://omim.org/entry/606802
ANTIGEN USED:	SPIB-HIS recombinant protein (full length protein)
FUSION PARTNER:	NS1/Ag4-1 (NS1) cells
ISOTYPE:	IgG1
SPECIES REACTIVITY:	human
PREPARATION AND STORAGE:	Aliquot and store at 4C. Do not freeze
APP RECOMMENDED:	IHQ-paraffin
APP NO RECOMMENDED:	WB, IHQ-frozen
APP NO TESTED:	IF, Flow cytometry, IP

DESCRIPTION

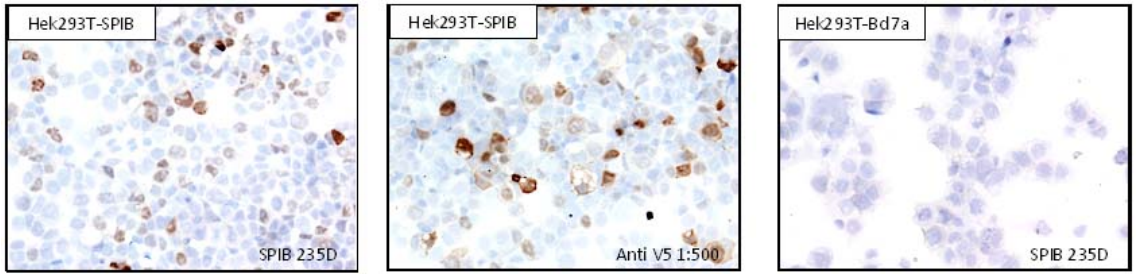
Spi-B is a member of the Ets family of transcription factors that has high homology with the transcription factor Pu.1. The human Spi-B protein has 67% amino acid sequence identity with human Pu.1 and binds specifically to the Pu.1 binding consensus sequence 5 GAGGAA 3. Spi-B can also interact with the co-activator IRF-4 (Pip) which binds a sequence element in the Ig? enhancer when complexed with Pu.1.

PUBLICATION DESCRIBING ANTIBODY CHARACTERIZATION/VALIDATION

SPIB, a novel immunohistochemical marker for human blastic plasmacytoid dendritic cell neoplasms: characterization of its expression in major hematolymphoid neoplasms. Montes-Moreno S, Ramos-Medina R, Martínez-López A, Barrionuevo Cornejo C, Parra Cubillos A, Quintana-Truyenque S, Rodriguez Pinilla SM, Pajares R, Sanchez-Verde L, Martinez-Torrecuadrada J, Roncador G, Piris MA. Blood. 2013 Jan 24;121(4):643-7.

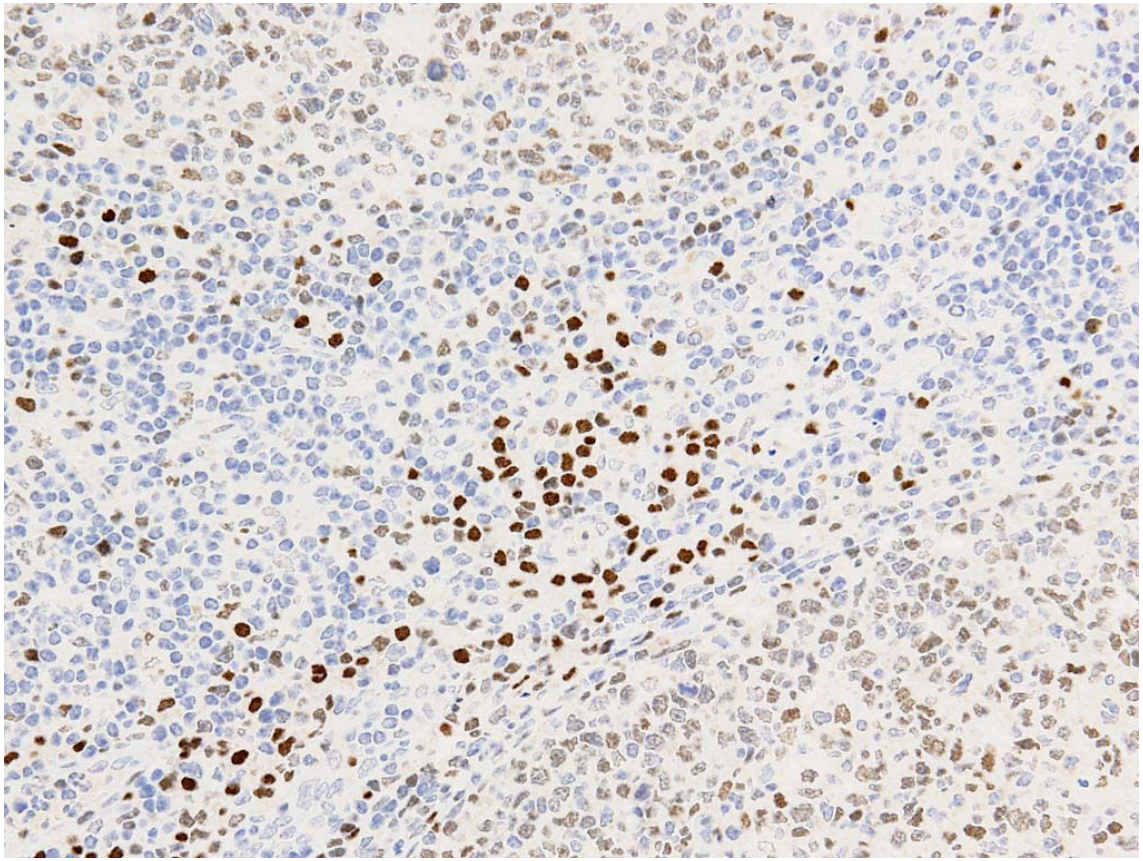
APPLICATIONS

IHC Techniques	Clone	Dilution	Antibody concentration	Antigen retrieval method	Visualization kit	Positive control	Negative control	Protein localization	Positivity in other species
Frozen tissue and cytospins									
Paraffin tissue									
Recommended	235D	1:3	supernatant	20 minutes ER2 (Tris-EDTA)	Novolink kit	Tonsil		nuclear	
Immunofluorescence									



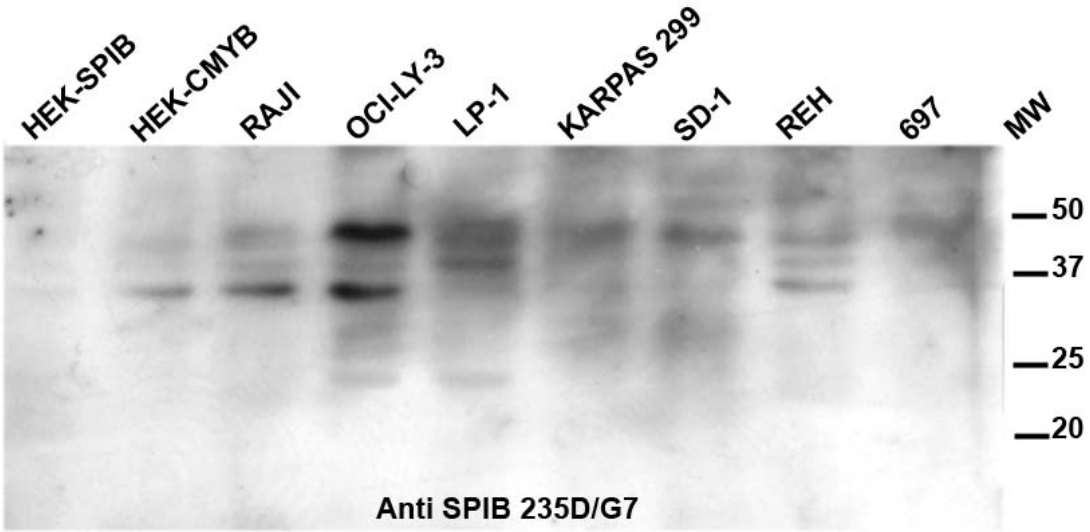
SPIB antibody (235D) in transfected cells.

Validation of 235D monoclonal antibody in HEK-V5-SPIB transfected cells. Anti-V5 monoclonal antibody was used as positive control. HEK-BCL7A was used as negative control.



Anti-SPIB (235D) antibody on human paraffin section.

WB Techniques	Clone	Dilution	Antibody concentration	Positive control	Negative control	Expected MW	Observed Mw	Positivity in other species
Western Blotting								
Inconclusive	235D	1:2	supernatant	SUDHL6 cell line			48kDa	
Immunoprecipitation								



Western Blotting of SPIB (235D) using transfected cells and different lymphoma cell lines

Lane 1 Transfected Hek-V5-SPIB (10?g) (+)

Lane 2 Transfected Hek-C-myb (10?g) (-)

Lane 3 Raji cell line (100?g) (+)

Lane 4 Oci-Ly-3 cell line (100?g) (+)

Lane 5 LP1 cell line (100?g) (-)

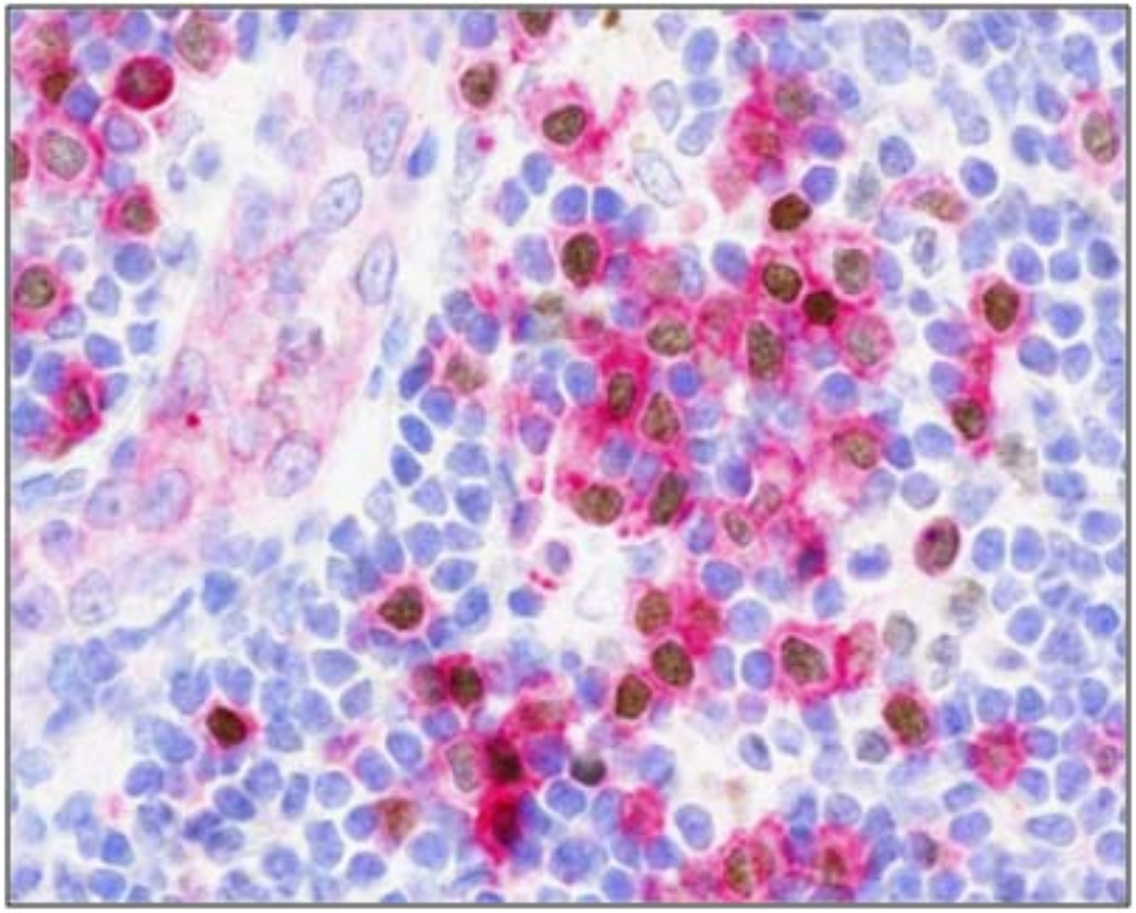
Lane 6 Karpas 299 cell line (100?g) (-)

Lane 7 SD-1 cell line (100?g) (-)

Lane 8 REH cell line(100?g) (-)

Lane 9 697 cell line (100?g) (-)

OTHERS	Title	Description
Recommended	Double SPIB/CD123 immunoenzimatic staining	



Double SPIB/CD123 immunoenzimatic staining

Double immunoenzymatic staining shows the expression of SPIB (brown) and CD123 (RED) in plasmacytoid dendritic cells.