

For Research Use Only

SP3 Polyclonal antibody

Catalog Number: 26584-1-AP

5 Publications



Basic Information

Catalog Number: 26584-1-AP	GenBank Accession Number: BC126414	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 750 ug/ml by Nanodrop and 387 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 6670	Recommended Dilutions: WB 1:500-1:1000 IHC 1:1000-1:4000
Source: Rabbit	UNIPROT ID: Q02447	
Isotype: IgG	Full Name: Sp3 transcription factor	
Immunogen Catalog Number: AG25082	Calculated MW: 781 aa, 82 kDa	
	Observed MW: 70 kDa, 115 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB, IHC	WB : PC-3 cells, C2C12 cell, COLO 320 cells
Species Specificity: human, mouse	IHC : mouse lung tissue, human ovary cancer tissue
Cited Species: human, mouse	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

SP3, also named as transcription factor Sp3, is a 781 amino acid protein, which contains 3 C2H2-type zinc fingers and belongs to the Sp1 C2H2-type zinc-finger protein family. SP3 localizes to the nuclear periphery and in nuclear dots when sumoylated. Some localization in PML nuclear bodies. SP3 is acetylated by histone acetyltransferase p300, deacetylated by HDACs and sumoylated on all isoforms. Sumoylated on 2 sites in longer isoforms with Lys-551 being the major site. Sumoylation at this site promotes nuclear localization to the nuclear periphery, nuclear dots and PML nuclear bodies. Sumoylation on Lys-551 represses the transactivation activity, except for the largest isoform, L-Sp3, which has little effect on transactivation. Alternate sumoylation and acetylation at Lys-551 also control transcriptional activity. There exits tow modified isoform and molecular weight of those are 70 kda and 115 kda.

Notable Publications

Author	Pubmed ID	Journal	Application
Shouhua Zhang	29260353	Dig Dis Sci	WB
Lifang Sun	38056200	Int Immunopharmacol	WB
Longze Sha	37573508	Cell Rep	WB

Storage

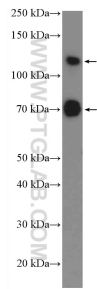
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

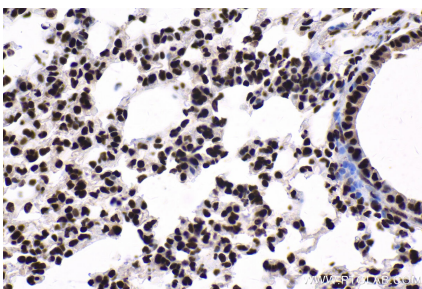
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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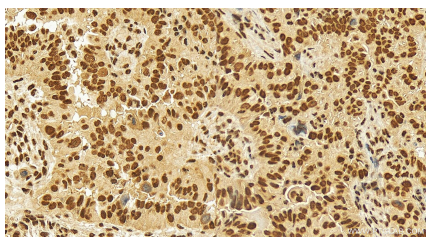
Selected Validation Data



PC-3 cells were subjected to SDS PAGE followed by western blot with 26584-1-AP (SP3 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 26584-1-AP (SP3 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 26584-1-AP (SP3 antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).