

For Research Use Only

# SP3 Polyclonal antibody

Catalog Number: 26584-1-AP **5 Publications**



## Basic Information

<b>Catalog Number:</b> 26584-1-AP	<b>GenBank Accession Number:</b> BC126414	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 750 µg/ml	<b>GeneID (NCBI):</b> 6670	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:1000-1:4000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q02447	
<b>Isotype:</b> IgG	<b>Full Name:</b> Sp3 transcription factor	
<b>Immunogen Catalog Number:</b> AG25082	<b>Calculated MW:</b> 781 aa, 82 kDa	
	<b>Observed MW:</b> 70 kDa, 115 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : PC-3 cells, C2C12 cell, COLO 320 cells IHC : mouse lung tissue,
<b>Cited Applications:</b> IHC, WB	
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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 exists two 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

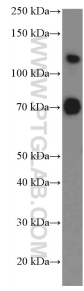
## Storage

**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

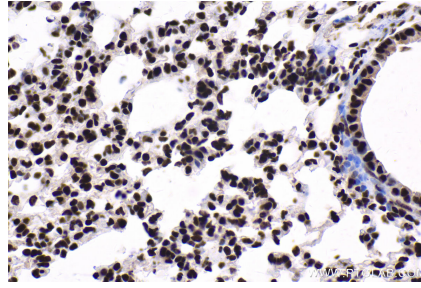
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## Selected Validation Data



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).