

For Research Use Only

SP3 Recombinant antibody

Catalog Number: 85050-1-RR



Basic Information

Catalog Number: 85050-1-RR	GenBank Accession Number: BC126414	Purification Method: Protein A purification
Concentration: 1000 ug/ml	GeneID (NCBI): 6670	CloneNo.: 242556A2
Source: Rabbit	UNIPROT ID: Q02447	Recommended Dilutions: WB 1:2000-1:10000 IF/ICC 1:250-1:1000
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, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : HeLa cells, K-562 cells, PC-3 cells, HCT 116 cells, COLO 320 cells, C2C12 cells, C6 cells
	IF/ICC : HepG2 cells,

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.

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

For technical support and original validation data for this product please contact:

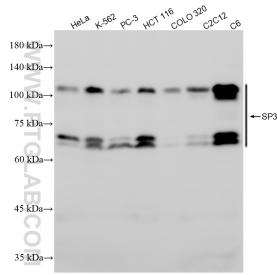
T: 4006900926

E: Proteintech-CN@ptglab.com

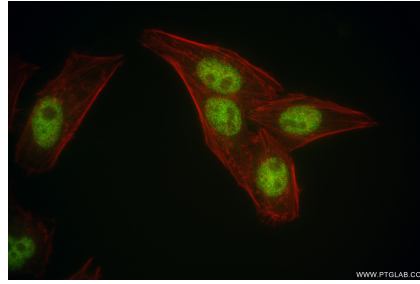
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85050-1-RR (SP3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SP3 antibody (85050-1-RR, Clone: 242556A2) at dilution of 1:500 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).