

For Research Use Only

CoraLite® Plus 488-conjugated SP3 Recombinant antibody

Catalog Number:CL488-85050



Basic Information

Catalog Number: CL488-85050	GenBank Accession Number: BC126414	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 6670	CloneNo.: 242556A2
Source: Rabbit	UNIPROT ID: Q02447	Recommended Dilutions: IF/ICC: 1:200-1:800
Isotype: IgG	Full Name: Sp3 transcription factor	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG25082	Calculated MW: 781 aa, 82 kDa	
	Observed MW: 70 kDa, 115 kDa	

Applications

Tested Applications: IF/ICC	Positive Controls: IF/ICC : HepG2 cells,
Species Specificity: human, mouse, rat	

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.

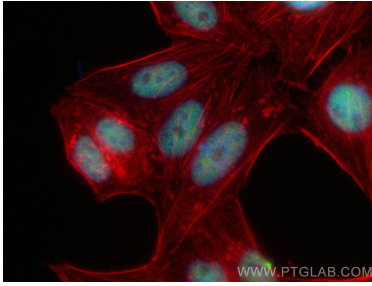
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

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)
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CoraLite® Plus 488 SP3 antibody (CL488-85050, Clone: 242556A2) at dilution of 1:400, CL594-Phalloidin (red).