

For Research Use Only

# SP3 Recombinant antibody, PBS Only (Capture)

Catalog Number:85050-1-PBS



## Basic Information

<b>Catalog Number:</b> 85050-1-PBS	<b>GenBank Accession Number:</b> BC126414	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6670	<b>CloneNo.:</b> 242556A2
<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

**Tested Applications:**  
WB, IF/ICC, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## Product Information

85050-1-PBS targets SP3 as part of a matched antibody pair:

MP01797-1: 85050-1-PBS capture and 85050-3-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## 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

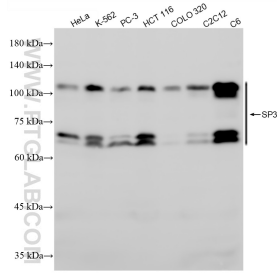
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

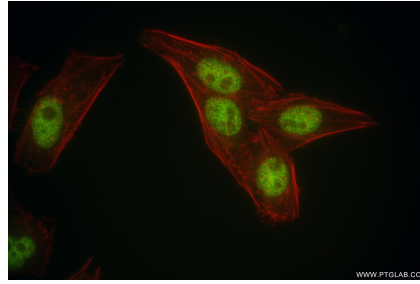
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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

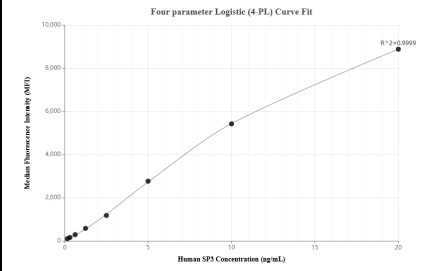
## Selected Validation Data



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. This data was developed using the same antibody clone with 85050-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 85050-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01797-1, SP3 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 85050-1-PBS. Detection antibody: 85050-3-PBS. Standard: Ag25082. Range: 0.156-20 ng/mL.