

# CoraLite®594-conjugated SP1 Monoclonal antibody

Catalog Number: **CL594-66508**

## Basic Information

<b>Catalog Number:</b> CL594-66508	<b>GenBank Accession Number:</b> BC062539	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6667	<b>CloneNo.:</b> 4G3H3
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000185591	<b>Recommended Dilutions:</b> IF-P 1:50-1:500 IF/ICC 1:50-1:500
<b>Isotype:</b> IgG1	<b>UNIPROT ID:</b> P08047	<b>Excitation/Emission maxima wavelengths:</b> 588 nm / 604 nm
<b>Immunogen Catalog Number:</b> AG16720	<b>Full Name:</b> Sp1 transcription factor	
	<b>Calculated MW:</b> 785 aa, 81 kDa	
	<b>Observed MW:</b> 95-105 kDa, 60-65 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, FC (Intra)	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse, rat	IF-P : human colon cancer tissue, IF/ICC : HEK-293 cells, human colon cancer tissue

## Background Information

The transcription factor Sp1 is a C2H2 zinc-finger protein that is involved in the regulation of a wide variety of genes, including housekeeping genes and tumor-developing genes. It is associated with tumor development, growth, and metastasis [PMID: 16209919]. It regulates the expression of a large number of genes involved in a variety of processes such as cell growth, apoptosis, differentiation and immune responses. Besides, it has a role in modulating the cellular response to DNA damage, recruiting SMARCA4/BRG1 on the c-FOS promoter, regulation of FE65 gene expression [PMID:11371615,16332679]. SP1 has some isoforms with MW ~95-106 kDa and ~60 kDa [PMID:17462816].

## 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, pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

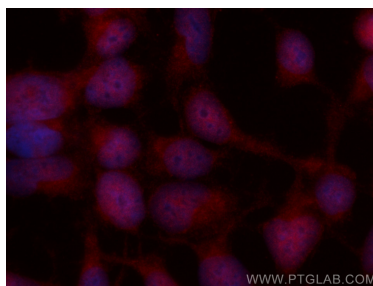
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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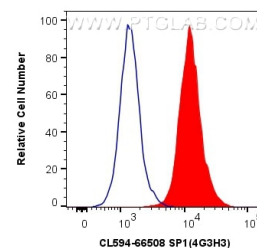
## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human colon cancer tissue using CoraLite®594 SP1 antibody (CL594-66508, Clone: 4G3H3) at dilution of 1:200.



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using CoraLite®594 SP1 antibody (CL594-66508, Clone: 4G3H3) at dilution of 1:200.



1X10<sup>6</sup> HEK-293 cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human SP1 (CL594-66508, Clone:4G3H3) (red), or 0.4 ug CoraLite®594 Mouse IgG1 Isotype Control (MOPC-21) (CL594-65124, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).