

CoraLite®594-conjugated SP1 Monoclonal antibody

Catalog Number: CL594-66508

Basic Information

Catalog Number:

CL594-66508

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG16720

GenBank Accession Number:

BC062539

GeneID (NCBI):

6667

ENSEMBL Gene ID:

ENSG00000185591

UNIPROT ID:

P08047

Full Name:

Sp1 transcription factor

Calculated MW:

785 aa, 81 kDa

Observed MW:

95-105 kDa, 60-65 kDa

Purification Method:

Protein G purification

CloneNo.:

4G3H3

Recommended Dilutions:

IF-P 1:50-1:500

IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:

588 nm / 604 nm

Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human, mouse, rat

Positive Controls:

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:

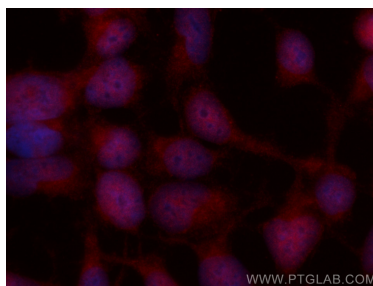
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

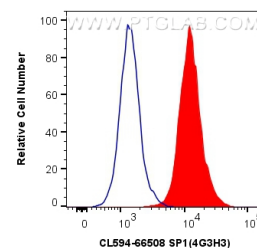
Selected Validation Data



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.



1X10⁶ 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).