
Product Name: Sp1 Rabbit Polyclonal Antibody**Catalog #: APRab18146**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:10000-1:20000
Molecular Weight	85kDa

Antigen Information

Gene Name	SP1
Alternative Names	SP1; TSFP1; Transcription factor Sp1
Gene ID	6667.0
SwissProt ID	P08047
Immunogen	The antiserum was produced against synthesized peptide derived from human SP1. AA range:706-755

Background

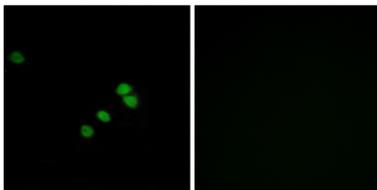
The protein encoded by this gene is a zinc finger transcription factor that binds to GC-rich motifs of many promoters. The

encoded protein is involved in many cellular processes, including cell differentiation, cell growth, apoptosis, immune responses, response to DNA damage, and chromatin remodeling. Post-translational modifications such as phosphorylation, acetylation, glycosylation, and proteolytic processing significantly affect the activity of this protein, which can be an activator or a repressor. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2014],function: Binds to GC box promoters elements and selectively activates mRNA synthesis from genes that contain functional recognition sites. Can interact with G/C-rich motifs from serotonin receptor promoter.,PTM: O-glycosylated; contains N-acetylglucosamine side chains.,similarity: Belongs to the Sp1 C2H2-type zinc-finger protein family.,similarity: Contains 3 C2H2-type zinc fingers.,subunit: Interacts with ATF7IP, ATF7IP2, POGZ, HCFC1, AATF and PHC2. Interacts with varicella-zoster virus IE62 protein and HIV-1 Vpr. Interacts with SV40 VP2/3 proteins. Interacts with SV40 major capsid protein VP1; this interaction leads to a cooperativity between the two proteins in DNA binding.,

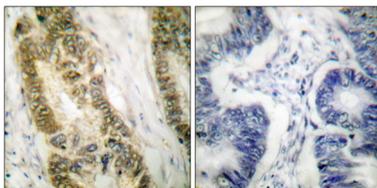
Research Area

TGF-beta;Huntington's disease;

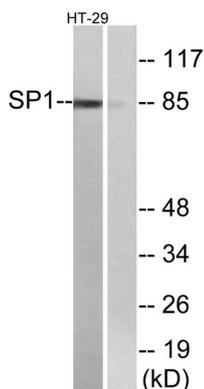
Image Data



Immunofluorescence analysis of HepG2 cells, using SP1 Antibody. The picture on the right is blocked with the synthesized peptide.

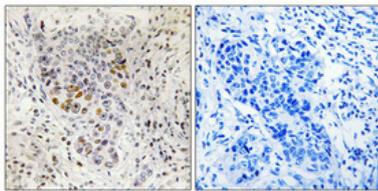
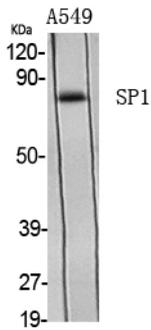


Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue, using SP1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HT-29 cells, using SP1 Antibody. The lane on the right is blocked with the synthesized peptide.

Western Blot analysis of various cells using Sp1 Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100 (4°,overnight) . High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.