

**Sp1 Polyclonal Antibody**  
**Catalog # AP72555****Specification**

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**Sp1 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IF
Primary Accession	<a href="#">P08047</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**Sp1 Polyclonal Antibody - Additional Information****Gene ID** 6667**Other Names**

SP1; TSFP1; Transcription factor Sp1

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.

IHC-P~~N/A

IF~~1:50~200

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**Sp1 Polyclonal Antibody - Protein Information****Name** SP1**Synonyms** TSFP1**Function**

Transcription factor that can activate or repress transcription in response to physiological and pathological stimuli. Binds with high affinity to GC-rich motifs and regulates the expression of a large number of genes involved in a variety of processes such as cell growth, apoptosis, differentiation and immune responses. Highly regulated by post-translational modifications (phosphorylations, sumoylation, proteolytic cleavage, glycosylation and acetylation). Also binds the PDGFR-alpha G-box promoter. May have a role in modulating the cellular response to DNA damage. Implicated in chromatin remodeling. Plays an essential role in the regulation of FE65 gene expression. In complex with ATF7IP, maintains telomerase activity in cancer cells by inducing TERT and TERC gene expression. Isoform 3 is a stronger activator of transcription than isoform 1. Positively regulates the transcription of the core clock component BMAL1 (PubMed:<a href="http://www.uniprot.org/citations/10391891" target="\_blank">10391891</a>, PubMed:<a href="http://www.uniprot.org/citations/10391891" target="\_blank">10391891</a>).

href="http://www.uniprot.org/citations/11371615" target="\_blank">11371615</a>, PubMed:<a href="http://www.uniprot.org/citations/11904305" target="\_blank">11904305</a>, PubMed:<a href="http://www.uniprot.org/citations/14593115" target="\_blank">14593115</a>, PubMed:<a href="http://www.uniprot.org/citations/16377629" target="\_blank">16377629</a>, PubMed:<a href="http://www.uniprot.org/citations/16478997" target="\_blank">16478997</a>, PubMed:<a href="http://www.uniprot.org/citations/16943418" target="\_blank">16943418</a>, PubMed:<a href="http://www.uniprot.org/citations/17049555" target="\_blank">17049555</a>, PubMed:<a href="http://www.uniprot.org/citations/18171990" target="\_blank">18171990</a>, PubMed:<a href="http://www.uniprot.org/citations/18199680" target="\_blank">18199680</a>, PubMed:<a href="http://www.uniprot.org/citations/18239466" target="\_blank">18239466</a>, PubMed:<a href="http://www.uniprot.org/citations/18513490" target="\_blank">18513490</a>, PubMed:<a href="http://www.uniprot.org/citations/18619531" target="\_blank">18619531</a>, PubMed:<a href="http://www.uniprot.org/citations/19193796" target="\_blank">19193796</a>, PubMed:<a href="http://www.uniprot.org/citations/20091743" target="\_blank">20091743</a>, PubMed:<a href="http://www.uniprot.org/citations/21046154" target="\_blank">21046154</a>, PubMed:<a href="http://www.uniprot.org/citations/21798247" target="\_blank">21798247</a>). Plays a role in the recruitment of SMARCA4/BRG1 on the c-FOS promoter. Plays a role in protecting cells against oxidative stress following brain injury by regulating the expression of RNF112 (By similarity).

#### **Cellular Location**

Nucleus. Cytoplasm. Note=Nuclear location is governed by glycosylated/phosphorylated states. Insulin promotes nuclear location, while glucagon favors cytoplasmic location

#### **Tissue Location**

Up-regulated in adenocarcinomas of the stomach (at protein level). Isoform 3 is ubiquitously expressed at low levels

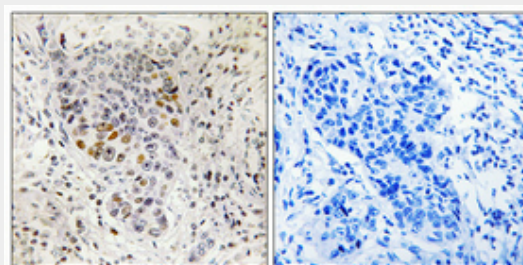
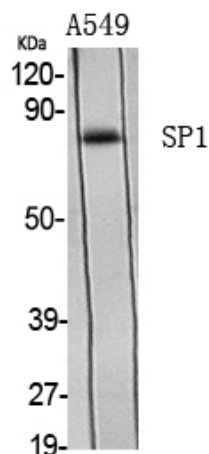
### **Sp1 Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Sp1 Polyclonal Antibody - Images**





### Sp1 Polyclonal Antibody - Background

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