

**Anti-SP1 Rabbit Monoclonal Antibody**  
Catalog # ABO13270

**Specification**

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**Anti-SP1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC
Primary Accession	<a href="#">P08047</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-SP1 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human.

**Anti-SP1 Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 6667

**Other Names**

Transcription factor Sp1, SP1, TSFP1

**Calculated MW**

80693 MW KDa

**Application Details**

WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200

**Subcellular Localization**

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

**Tissue Specificity**

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

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human SP1

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for**

up to one month. Avoid repeated  
freeze-thaw cycles.

## Anti-SP1 Rabbit Monoclonal 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). Binds also 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/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

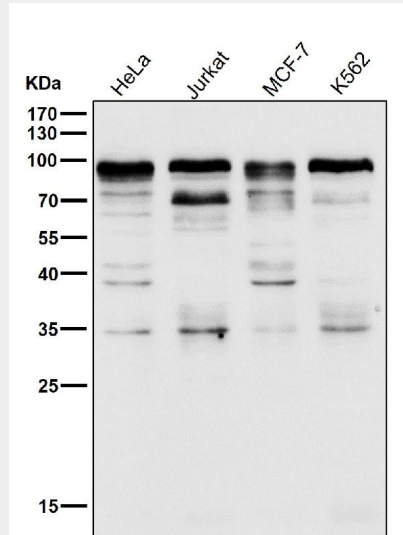
## Anti-SP1 Rabbit Monoclonal Antibody - Protocols

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

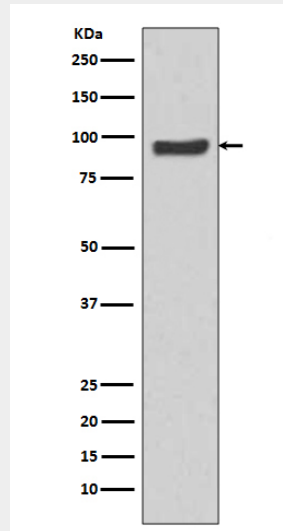
- [Western Blot](#)

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

### Anti-SP1 Rabbit Monoclonal Antibody - Images



All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



Western blot analysis of SP1 expression in HeLa cell lysate.