

SP1 Antibody (aa421-470)
Rabbit Polyclonal Antibody
Catalog # ALS15065**Specification**

SP1 Antibody (aa421-470) - Product Information

Application	IF, WB, IHC
Primary Accession	P08047
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	81kDa KDa

SP1 Antibody (aa421-470) - Additional Information**Gene ID** 6667**Other Names**

Transcription factor Sp1, SP1, TSFP1

Target/Specificity

SP1 Antibody detects endogenous levels of total SP1 protein.

Reconstitution & Storage

Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

Precautions

SP1 Antibody (aa421-470) is for research use only and not for use in diagnostic or therapeutic procedures.

SP1 Antibody (aa421-470) - 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:10391891, PubMed:10391891).

href="http://www.uniprot.org/citations/11371615" target="_blank">11371615, PubMed:11904305, PubMed:14593115, PubMed:16377629, PubMed:16478997, PubMed:16943418, PubMed:17049555, PubMed:18171990, PubMed:18199680, PubMed:18239466, PubMed:18513490, PubMed:18619531, PubMed:19193796, PubMed:20091743, PubMed:21798247, PubMed:21046154). 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

Volume

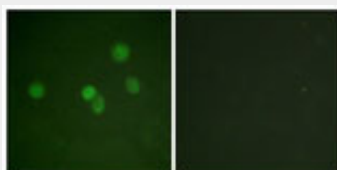
50 µl

SP1 Antibody (aa421-470) - Protocols

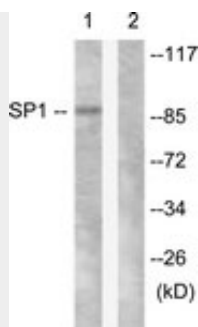
Provided below are standard protocols that you may find useful for product applications.

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

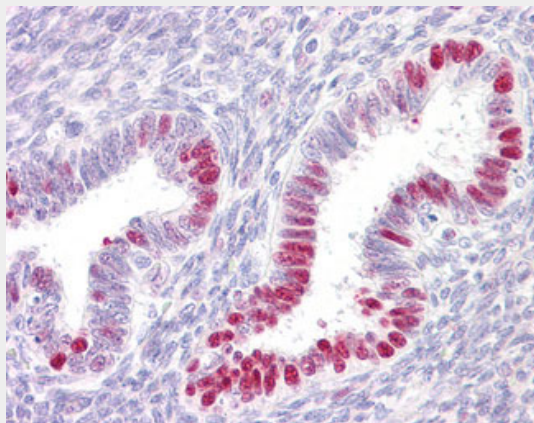
SP1 Antibody (aa421-470) - Images



Immunofluorescence of A549 cells, using SP1 Antibody.



Western blot of extracts from LOVO cells, using SP1 Antibody.



Anti-SP1 antibody IHC of human uterus.

SP1 Antibody (aa421-470) - Background

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SP1 Antibody (aa421-470) - References

- Infantino V.,et al.Biochem. Biophys. Res. Commun. 412:86-91(2011).
- Scherer S.E.,et al.Nature 440:346-351(2006).
- Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
- Haggart M.H.,et al.Submitted (APR-2000) to the EMBL/GenBank/DDBJ databases.
- Takahara T.,et al.J. Biol. Chem. 275:38067-38072(2000).