

## SP1 (Phospho Thr453) Rabbit pAb

CatalogNo: YP0247

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 90kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-1:2000**

**IHC 1:100-1:300**

**IF 1:200-1:1000**

**ELISA 1:5000**

**Not yet tested in other applications.**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human SP1 around the phosphorylation site of Thr453. AA range:421-470

## Specificity

Phospho-SP1 (T453) Polyclonal Antibody detects endogenous levels of SP1 protein only when phosphorylated at T453. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):IRtPT

## Target Information

**Gene name** SP1

**Protein Name** Transcription factor Sp1

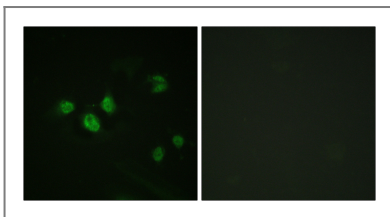
Organism	Gene ID	UniProt ID
Human	<a href="#">6667</a> ;	<a href="#">P08047</a> ;
Mouse	<a href="#">20683</a> ;	<a href="#">O89090</a> ;
Rat	<a href="#">24790</a> ;	<a href="#">Q01714</a> ;

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

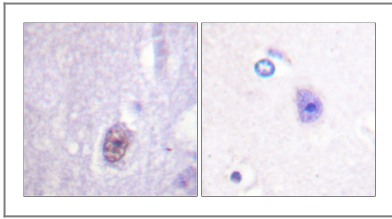
**Tissue specificity** Up-regulated in adenocarcinomas of the stomach (at protein level) . Isoform 3 is ubiquitously expressed at low levels.

**Function** 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. ,

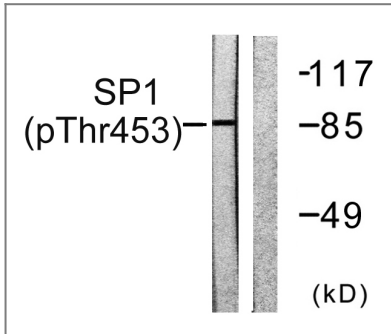
## Validation Data



Immunofluorescence analysis of HeLa cells, using SP1 (Phospho-Thr453) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human brain, using SP1 (Phospho-Thr453) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from A549 cells, using SP1 (Phospho-Thr453) Antibody. The lane on the right is blocked with the phospho peptide.

## Contact information

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Please scan the QR code to access additional product information:  
**SP1 (Phospho Thr453) Rabbit pAb**

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