SP1 (Phospho Thr453) Rabbit pAb

CatalogNo: YP0247

Key Features

Host Species	Reactivity	Applications
• Rabbit	• Human,Mouse,Rat	• WB,IHC,IF,ELISA

MW	Isotype
• 90kD (Observed)	• 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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

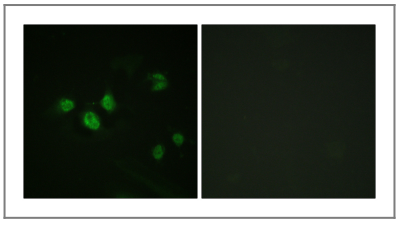
Organism	Gene ID	UniProt ID
Human	6667;	P08047;
Mouse	20683;	O89090;
Rat	24790;	Q01714;

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

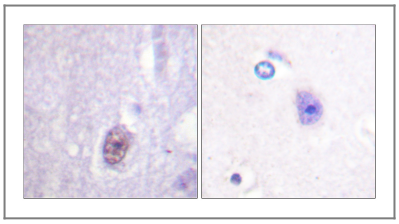
Tissue specificity Up-regulated in adenocarcinomas of the stomach (at protein level) . Isoform 3 is ubiquitously expressed at low levels.

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. ,

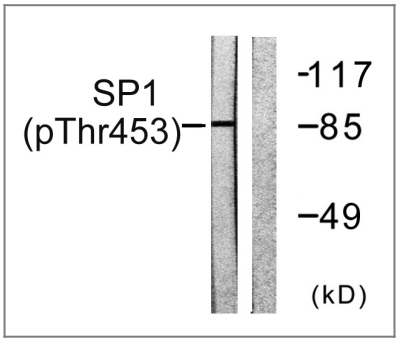
Validation Data



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

Orders:	order@immunoway.com
Support:	tech@immunoway.com
Telephone:	877-594-3616 (Toll Free), 408-747-0185
Website:	http://www.immunoway.com
Address:	2200 Ringwood Ave San Jose, CA 95131 USA

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

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