

For Research Use Only

SP1 Polyclonal antibody

Catalog Number: 21962-1-AP

Featured Product

60 Publications



Basic Information

Catalog Number: 21962-1-AP	GenBank Accession Number: BC062539	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 700 µg/ml by Nanodrop and 420 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 6667	Recommended Dilutions: WB 1:2000-1:16000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Source: Rabbit	Full Name: Sp1 transcription factor	IHC 1:50-1:500 IF 1:20-1:200
Isotype: IgG	Calculated MW: 785 aa, 81 kDa	
Immunogen Catalog Number: AG16720	Observed MW: 95-106 kDa	

Applications

Tested Applications: IF, IHC, IP, WB, ELISA	Positive Controls: WB: Jurkat cells, A431 cells, HEK-293 cells, K-562 cells
Cited Applications: ChIP, CoIP, IF, IHC, IP, WB	IP: A431 cells,
Species Specificity: human, mouse, rat, monkey	IHC: human lung cancer tissue, human colon tissue, human stomach cancer tissue
Cited Species: human, monkey, mouse, pig, rat	IF: HeLa cells,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

The transcription factor Sp1 is a C2H2 zinc-finger protein that is involved in the regulation of a wide variety of genes, including housekeeping genes and tumor-developing genes. It is associated with tumor development, growth, and metastasis [PMID: 16209919]. It regulates the expression of a large number of genes involved in a variety of processes such as cell growth, apoptosis, differentiation and immune responses. Besides, it has a role in modulating the cellular response to DNA damage, recruiting SMARCA4/BRG1 on the c-FOS promoter, regulation of FE65 gene expression [PMID:11371615,16332679]. SP1 is detected with MW 95-105 kDa and 65 kDa in this paper (PMID: 10618488).

Notable Publications

Author	Pubmed ID	Journal	Application
Faisal Aziz	26427350	Toxicol In Vitro	WB, IHC
Liping Wang	34559939	IUBMB Life	WB
Peng Duan	34794910	Sci Total Environ	WB, CoIP

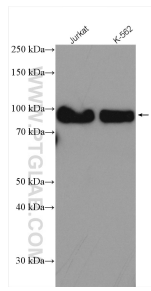
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

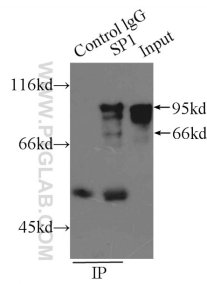
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

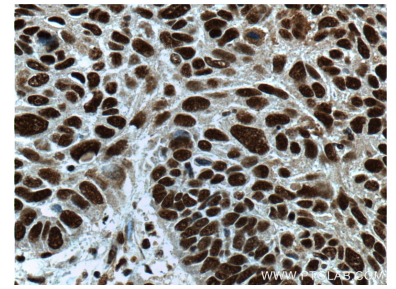
Selected Validation Data



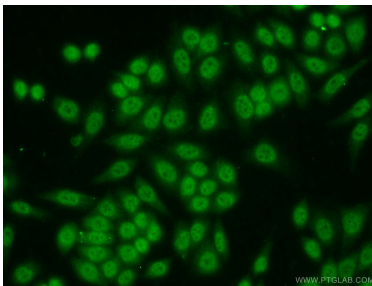
Various lysates were subjected to SDS PAGE followed by western blot with 21962-1-AP (SP1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



IP Result of anti-SP1 (IP:21962-1-AP, 6ug; Detection:21962-1-AP 1:500) with A431 cells lysate 2500ug.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 21962-1-AP (SP1 Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of HeLa cells using 21962-1-AP (SP1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).