

Nur für Forschungszwecke

# SOD1 Polyklonaler Antikörper

Katalog-Nr.:10269-1-AP

Vorgestelltes Produkt

194 Publikationen



## Allgemeine Informationen

<b>Katalog-Nr.:</b> 10269-1-AP	<b>GenBank-Zugangsnummer:</b> BC001034	<b>Reinigungsmethode:</b> Antigen-Affinitätsreinigung
<b>Größe:</b> 150ul , Konzentration: 1000 µg/ml von6647	<b>GeneID (NCBI):</b> Vollständiger Name: superoxide dismutase 1, soluble	<b>Empfohlene Verdünnungen:</b> WB 1:5000-1:50000 IP 0.5-4.0 ug für IP und 1:500-1:3000 für WB IHC 1:300-1:1200 IF 1:10-1:100
<b>Nanodrop;</b>	<b>Berechnete Masse:</b> 16 kDa	
<b>Wirt:</b> Kaninchen	<b>Beobachtete Masse:</b> 16-20 kDa	
<b>Isotyp:</b> IgG		
<b>Immunogen Katalognummer:</b> AG0335		

## Anwendungen

### Geprüfte Anwendungen:

IF, IHC, IP, WB, ELISA

### In Publikationen genannte Anwendungen:

CoIP, ELISA, IF, IHC, IP, WB

### Getestete Reaktivität:

Human, Maus, Ratte

### Zitierte Arten:

Hausschwein, Huhn, Human, Hund, Maus, Ratte, Rind, Ziege

**Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (\*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.**

### Positivkontrollen:

**WB:** HEK-293T-Zellen, HEK-293-Zellen, HeLa-Zellen, humanes Plazenta-Gewebe, Jurkat-Zellen, Maushirngewebe, Mauslebergewebe, Rattenlebergewebe, SH-SY5Y-Zellen

**IP:** HEK-293-Zellen, HeLa-Zellen

**IHC:** humanes Leberkarzinomgewebe, humanes Herzgewebe

**IF:** HEK-293-Zellen, HeLa-Zellen

## Hintergrundinformationen

The enzymatic function of Cu/Zn Superoxide Dismutase (SOD1), previously known as hemocuprein and IPOA, was first characterized in 1969 (PMID: 5389100). SOD1 is commonly known for its ROS scavenging activity, but recent work has uncovered additional roles in modulating metabolism, maintaining redox balance, and regulating transcription. In disease contexts, SOD1 is best-known for its role in a familial form of amyotrophic lateral sclerosis (fALS) (PMID: 10630188). In addition, SOD1 is overexpressed in numerous cancer types, including lung adenocarcinoma, non-small-cell lung cancer, and 70% of primary breast cancers (PMID: 31344643).

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Kentaro Hayashi	27716404	Acta Neuropathol Commun	
Huidong Wang	36249770	Front Pharmacol	IF
Lalit Pukhrambam Singh	35187384	JOJ Ophthalmol	WB

## Lagerung

### Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

### Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

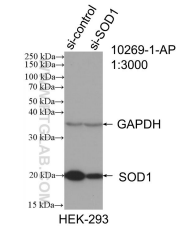
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

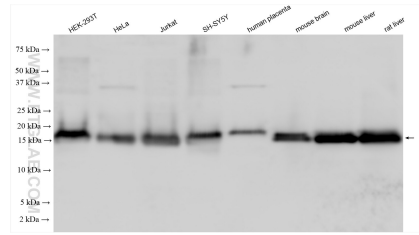
E: proteintech@ptglab.com  
W: ptglab.com

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

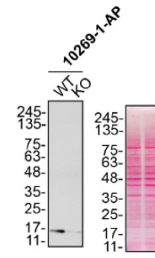
## Ausgewählte Validierungsdaten



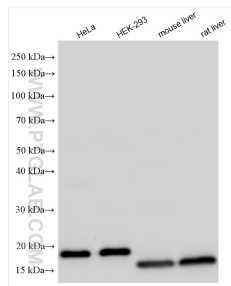
WB result of SOD1 antibody (10269-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SOD1 transfected HEK-293 cells.



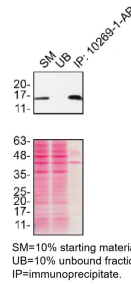
Various lysates were subjected to SDS PAGE followed by western blot with 10269-1-AP (SOD1 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



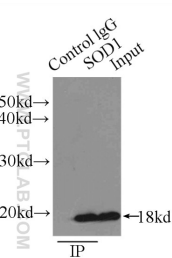
HeLa (WT and SOD1 KO) lysates prepared with RIPA buffer, 20 µg protein loaded. 10269-1-AP incubated at 1:1000 at 4°C overnight in 5% milk in TBST. Ponceau stained transfers shown on right. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



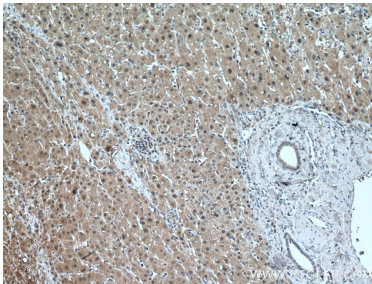
Various lysates were subjected to SDS PAGE followed by western blot with 10269-1-AP (SOD1 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



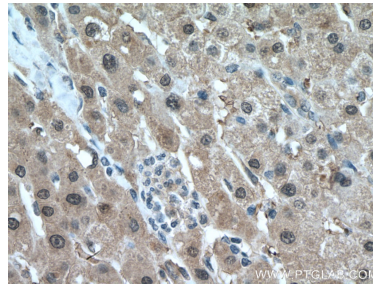
HeLa lysates prepared and IP of SOD1 performed using 2.0 µg of 10269-1-AP coupled to protein A-Sepharose beads. The Ponceau stained transfers of each blot are shown. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



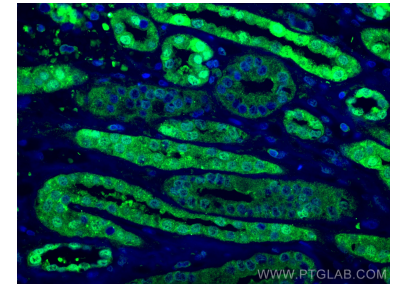
IP Result of anti-SOD1 (IP:10269-1-AP, 3µg; Detection:10269-1-AP 1:1500) with HEK-293 cells lysate 1000µg.



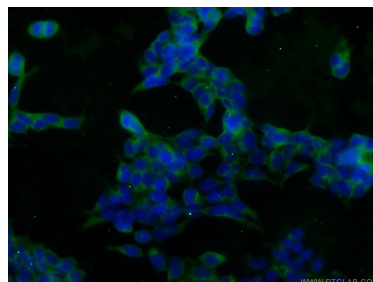
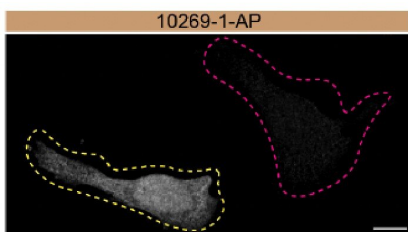
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 10269-1-AP (SOD1 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 10269-1-AP (SOD1 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human kidney tissue using SOD1 antibody (10269-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



HeLa WT cells (yellow outline) and SOD1 KO cells (red outline) labelled with a green or a far-red fluorescence dye, respectively. Cells fixed with 4% PFA and stained with 10269-1-AP. Bars = 10  $\mu$ m. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.

Immunofluorescent analysis of HEK-293 cells using 10269-1-AP (SOD1 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).