

À des fins de recherche uniquement

Anticorps Polyclonal de lapin anti-SOD1



Numéro de catalogue: 10269-1-AP

Phare

208 Publications

Informations de base

Numéro de catalogue:

10269-1-AP

Taille:

150ul, Concentration: 1000 µg/ml by

Nanodrop;

Hôte:

Lapin

Isotype:

IgG

Immunogen Catalog Number:

AG0335

Numéro d'acquisition GenBank:

BC001034

Identification du gène (NCBI):

6647

Nom complet:

superoxide dismutase 1, soluble

MW calculé

16 kDa

MW observés:

16-20 kDa

Méthode de purification:

Purification par affinité contre l'antigène

Dilutions recommandées:

WB 1:5000-1:50000

IP 0.5-4.0 ug for IP and 1:500-1:3000 for WB

IHC 1:300-1:1200

IF 1:10-1:100

Applications

Applications testées:

IF, IHC, IP, WB, ELISA

Demandes citées:

CoIP, ELISA, IF, IHC, IP, WB

Spécificité de l'espèce:

Humain, rat, souris

Espèces citées:

bovin, canin, Chèvre, Humain, porc, poulet, rat, souris

Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9,0; (*) À défaut, le démasquage de l'antigène peut être effectué avec un tampon citrate pH 6,0.

Contrôles positifs:

WB : cellules HEK-293T, cellules HEK-293, cellules HeLa, cellules Jurkat, cellules SH-SY5Y, tissu cérébral de souris, tissu hépatique de rat, tissu hépatique de souris, tissu placentaire humain

IP : cellules HEK-293, cellules HeLa

IHC : tissu de cancer du foie humain, tissu cardiaque humain

IF : cellules HEK-293, cellules HeLa

Informations générales

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).

Publications notables

Autrice	Pubmed ID	Journal	Application
Kentaro Hayashi	27716404	Acta Neuropathol Commun	
Huidong Wang	36249770	Front Pharmacol	IF
Lalit Pukhrambam Singh	35187384	IOJ Ophthalmol	WB

Stockage

Stockage:

Stocker à -20°C. Stable pendant un an après l'expédition.

Tampon de stockage:

PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3

L'aliquotage n'est pas nécessaire pour le stockage à -20C

*** Les 20ul contiennent 0,1% de BSA.

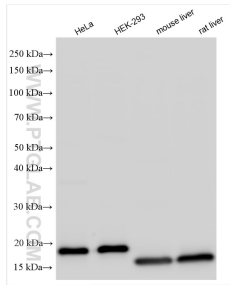
For technical support and original validation data for this product please contact:

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

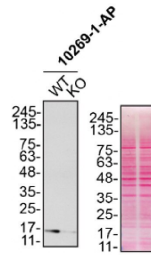
E: proteintech@ptglab.com
W: ptglab.com

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

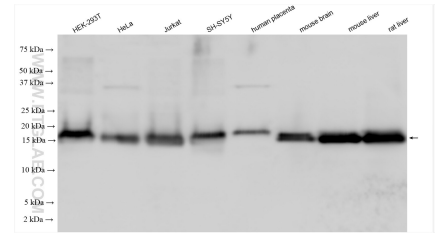
Données de validation sélectionnées



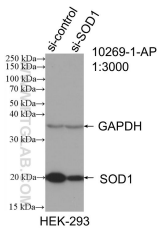
Various lysates were subjected to SDS PAGE followed by western blot with 10269-1-AP (SOD1 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



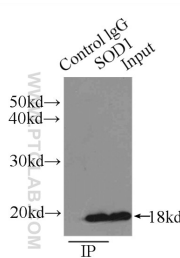
HeLa (WT and SOD1 KO) lysates prepared with RIPA buffer, 20 µg protein loaded. 10269-1-AP incubated at 1:1000 at 4°C overnight in 5% milk in TBST. Ponceau stained transfers shown on right. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific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



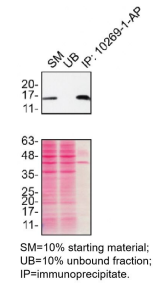
Various lysates were subjected to SDS PAGE followed by western blot with 10269-1-AP (SOD1 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



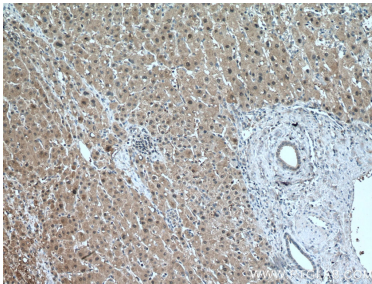
WB result of SOD1 antibody (10269-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SOD1 transfected HEK-293 cells.



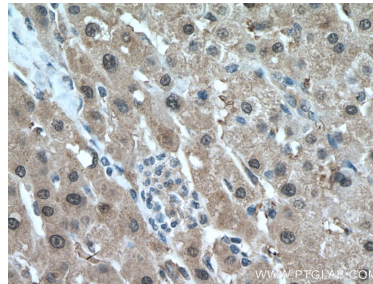
IP Result of anti-SOD1 (IP:10269-1-AP, 3µg; Detection:10269-1-AP 1:1500) with HEK-293 cells lysate 1000µg.



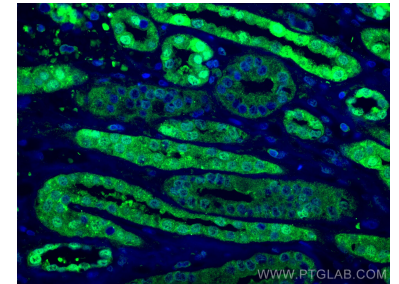
HeLa lysates prepared and IP of SOD1 performed using 2.0 µg of 10269-1-AP coupled to protein A-Sepharose beads. The Ponceau stained transfers of each blot are shown. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility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



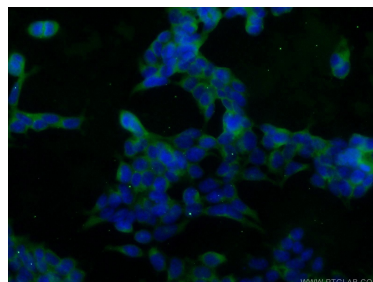
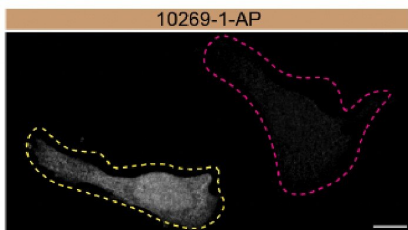
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 10269-1-AP (SOD1 antibody) at dilution of 1:600 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 μ 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).