Product Datasheet

SOD1 Antibody

Catalog No: #32058

Package Size: #32058-1 50ul #32058-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

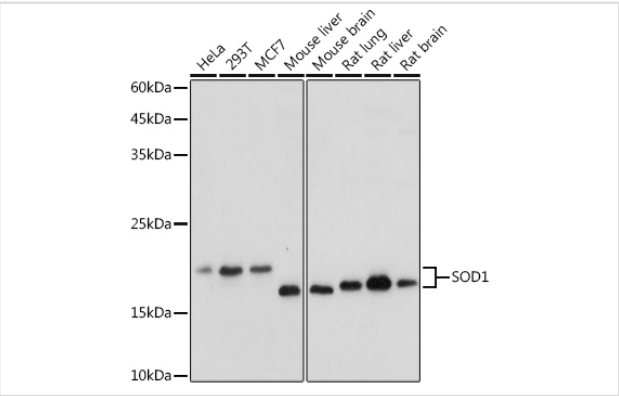
Description

Product Name	SOD1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB,IHC,IF
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of total SOD1 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant fusion protein of human SOD1 (NP_000445.1).
Conjugates	Unconjugated
Target Name	SOD1
Other Names	SOD1;ALS;ALS1;HEL-S-44;IPOA;SOD;hSod1;homodimer
Accession No.	Uniprot:P00441GeneID:6647
SDS-PAGE MW	16-18KDa
Concentration	1.0mg/ml
Formulation	PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Storage	Store at -20°C. Avoid freeze / thaw cycles.

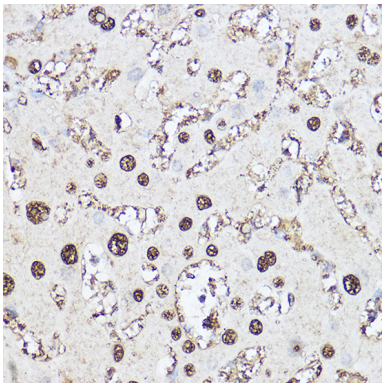
Application Details

WB□1:500 - 1:2000IHC□1:50 - 1:200IF□1:50 - 1:200

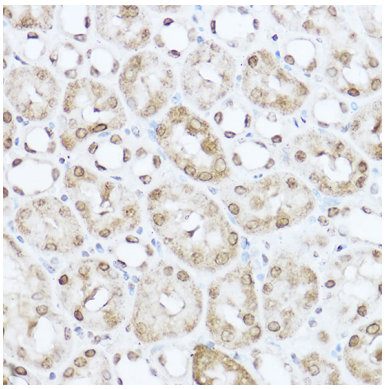
Images



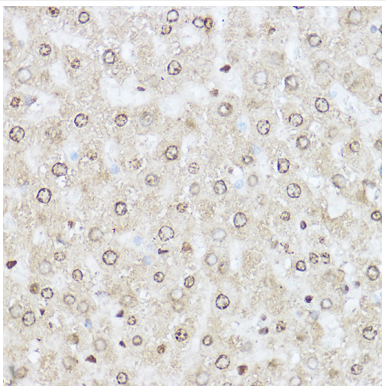
Western blot analysis of extracts of various cell lines, using SOD1 antibody.



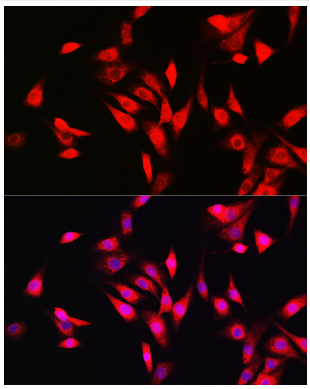
Immunohistochemistry of paraffin-embedded human liver using SOD1 Rabbit pAb.



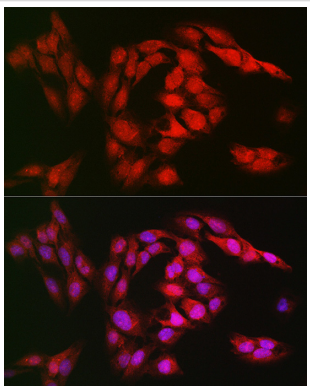
Immunohistochemistry of paraffin-embedded mouse kidney using SOD1 Rabbit pAb.



Immunohistochemistry of paraffin-embedded rat liver using SOD1 Rabbit pAb.



Immunofluorescence analysis of NIH/3T3 cells using SOD1 Rabbit pAb.



Immunofluorescence analysis of U2OS cells using SOD1 Rabbit pAb.

Background

The protein encoded by this gene binds copper and zinc ions and is one of two isozymes responsible for destroying free superoxide radicals in the body. The encoded isozyme is a soluble cytoplasmic protein, acting as a homodimer to convert naturally-occuring but harmful superoxide radicals to molecular oxygen and hydrogen peroxide. The other isozyme is a mitochondrial protein. Mutations in this gene have been implicated as causes of familial amyotrophic lateral sclerosis. Rare transcript variants have been reported for this gene.

Published Papers

el at., The effect of exposure time and concentration of airborne PM2.5 on lung Injury In mice: A transcriptome analysis. In Redox Biol on 2019 Sep by Wang H, Shen X et al..PMID:31279222, , (2019)

PMID:31279222

el at., Alveolar Type II Cell Damage and Nrf2-SOD1 Pathway Downregulation Are Involved in PM2.5-Induced Lung Injury in Rats. In Int J Environ Res Public Health

on 2022 Oct 8 by Rui Niu, Jie Cheng,et al..PMID:36232201, , (2022)

PMID:36232201

Note: This product is for in vitro research use only and is not intended for use in humans or animals.