

SOD1 Polyclonal Antibody

Catalog number: 10269-1-AP

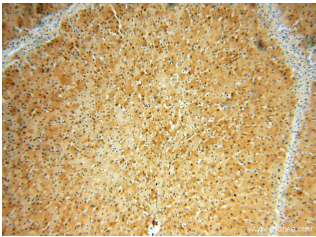
Size: 30 µg/150 µl

Source: Rabbit

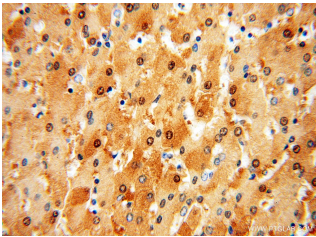
Isotype: IgG

Synonyms:

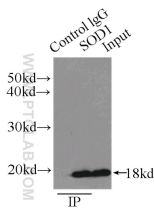
SOD1; ALS, ALS1, homodimer, IPOA, SOD, SOD1, Superoxide dismutase [Cu Zn]



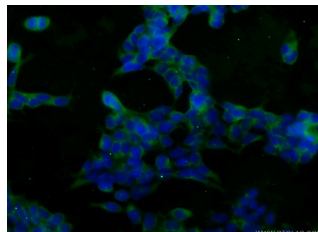
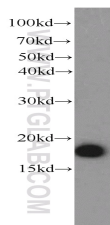
Immunohistochemical of paraffin-embedded human liver using 10269-1-AP(SOD1 antibody) at dilution of 1:100 (under 10x lens)



Immunohistochemical of paraffin-embedded human liver using 10269-1-AP(SOD1 antibody) at dilution of 1:100 (under 40x lens)



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



Background

Superoxide dismutase 1, soluble (amyotrophic lateral sclerosis 1 (adult)) (SOD1, synonyms: ALS, SOD, ALS1, IPOA) binds copper and zinc ions and is one of two isozymes responsible for destroying free superoxide radicals in the body. This isozyme is a soluble cytoplasmic protein, acting as a homodimer to convert naturally-occurring 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.

Applications

Tested applications:	ELISA, WB, IHC, IP, IF
Cited applications:	IF, IHC, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human, mouse, rat
Calculated SOD1 MW:	16 kDa
Observed SOD1 MW:	16-18 kDa
Positive WB detected in	HEK-293 cells, HeLa cells, human placenta tissue, mouse brain tissue, mouse liver tissue, rat brain tissue
Positive IP detected in	HEK-293 cells
Positive IHC detected in	Human liver tissue, human brain tissue, human heart tissue, human kidney tissue, human lung tissue, human ovary tissue, human placenta tissue, human skin tissue, human spleen tissue, human testis tissue
Positive IF detected in	HEK-293 cells
Recommended dilution:	WB: 1:500-1:5000 IP: 1:500-1:5000 IHC: 1:20-1:200 IF: 1:10-1:100

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag0335
GenBank accession number:	BC001034
Gene ID (NCBI):	6647
Full name:	Superoxide dismutase 1, soluble

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

HEK-293 cells were subjected to SDS PAGE followed by western blot with 10269-1-AP(SOD1 antibody) at dilution of 1:1500

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)