

[KO Validated] SOD2 Rabbit mAb

Catalog No.: A19576 **KO Validated** **Recombinant** **10 Publications**

Basic Information

Observed MW

22kDa

Calculated MW

25kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, IF/ICC

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC0055

Background

This gene is a member of the iron/manganese superoxide dismutase family. It encodes a mitochondrial protein that forms a homotetramer and binds one manganese ion per subunit. This protein binds to the superoxide byproducts of oxidative phosphorylation and converts them to hydrogen peroxide and diatomic oxygen. Mutations in this gene have been associated with idiopathic cardiomyopathy (IDC), premature aging, sporadic motor neuron disease, and cancer. Alternative splicing of this gene results in multiple transcript variants. A related pseudogene has been identified on chromosome 1.

Recommended Dilutions

WB	1:500 - 1:2000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID

6648

Swiss Prot

P04179

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human SOD2 (P04179).

Synonyms

GC1; IPOB; IPO-B; MNSOD; MVCD6; GCInc1; Mn-SOD; D2

Contact

☎ | 400-999-6126

✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

Product Information

Source

Rabbit

Isotype

IgG

Purification

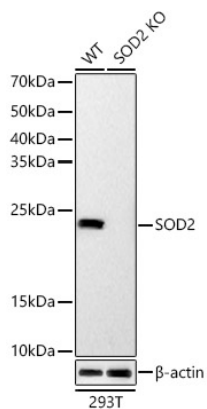
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of lysates from wild type (WT) and SOD2 knockout (KO) 293T (KO) cells, using SOD2 Rabbit mAb (A19576) at 1:2000 dilution.

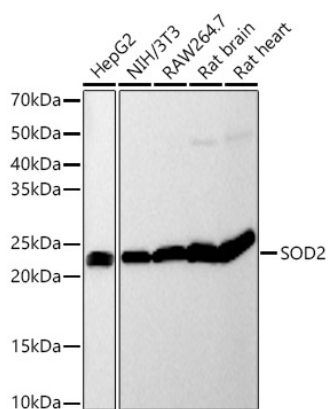
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 20s.



Western blot analysis of various lysates, using SOD2 Rabbit mAb (A19576) at 1:2000 dilution.

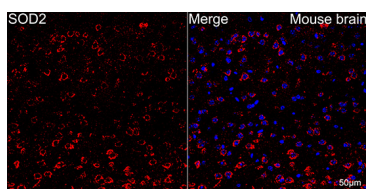
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

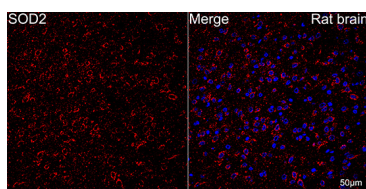
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

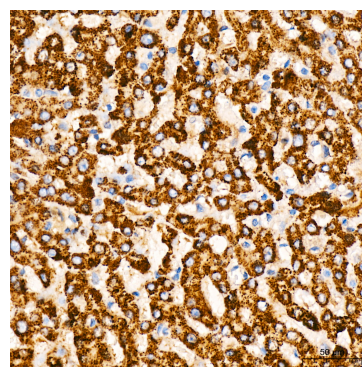
Exposure time: 20s.



Confocal imaging of paraffin-embedded Mouse brain tissue using [KO Validated] SOD2 Rabbit mAb (A19576, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform microwave antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.

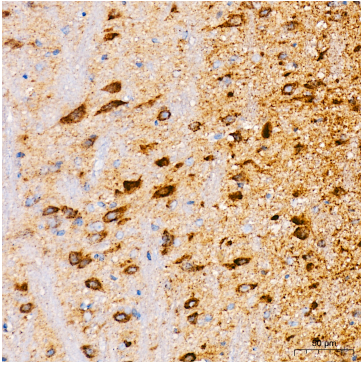


Confocal imaging of paraffin-embedded Rat brain tissue using [KO Validated] SOD2 Rabbit mAb (A19576, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform microwave antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.

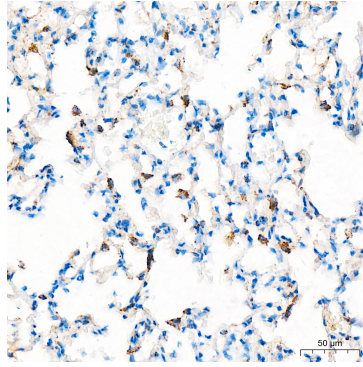


Immunohistochemistry analysis of SOD2 in paraffin-embedded human liver tissue using [KO Validated] SOD2 Rabbit mAb (A19576) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

Validation Data



Immunohistochemistry analysis of SOD2 in paraffin-embedded mouse brain tissue using [KO Validated] SOD2 Rabbit mAb (A19576) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of SOD2 in paraffin-embedded rat lung tissue using [KO Validated] SOD2 Rabbit mAb (A19576) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.