

[KD Validated] SOD1 Rabbit PolymAb®

Catalog No.: A27899PM

Basic Information

Observed MW

20kDa

Calculated MW

16kDa

Category

Primary antibody

Applications

WB, IP, IF/ICC, IF-P, IHC-P, ELISA

Cross-Reactivity

Human, Mouse, Rat

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-occurring but harmful superoxide radicals to molecular oxygen and hydrogen peroxide. The other isozyme is a mitochondrial protein. In addition, this protein contains an antimicrobial peptide that displays antibacterial, antifungal, and anti-MRSA activity against *E. coli*, *E. faecalis*, *S. aureus*, *S. aureus* MRSA LPV+, *S. agalactiae*, and yeast *C. krusei*. Mutations in this gene have been implicated as causes of familial amyotrophic lateral sclerosis. Rare transcript variants have been reported for this gene.

Recommended Dilutions

WB 1:5000 - 1:20000**IP** 0.5µg-4µg antibody for
200µg-400µg extracts of
whole cells**IF/ICC** 1:200 - 1:800**IF-P** 1:200 - 1:800**IHC-P** 1:10000 - 1:40000**ELISA** Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on your
specific assay requirements.

Contact

 | 400-999-6126 | cn.market@abclonal.com.cn

Immunogen Information

Gene ID

6647

Swiss Prot

P00441

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

ALS; SOD; ALS1; IPOA; STAHP; hSod1; HEL-S-44; homodimer

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

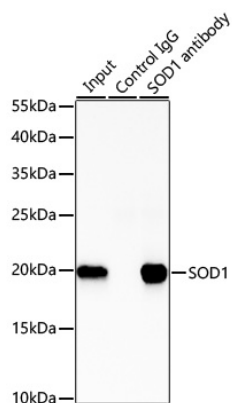
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

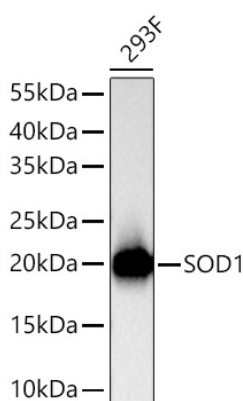


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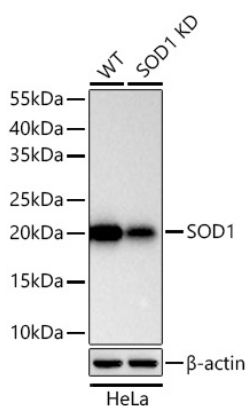
Validation Data



Immunoprecipitation of SOD1 from 300 µg extracts of 293FT cells was performed using 2 µg of [KD Validated] SOD1 Rabbit PolymAb® (A27899PM). Rabbit IgG isotype control (AC0005) was used to precipitate the Control IgG sample. IP samples were eluted with 1X reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using [KD Validated] SOD1 Rabbit PolymAb® (A27899PM) at a dilution of 1:5000.

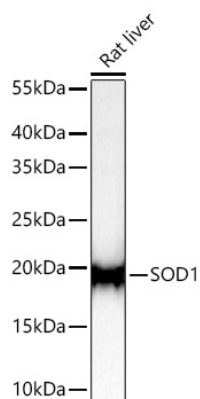


Western blot analysis of lysates from 293F cells using [KD Validated] SOD1 Rabbit PolymAb® (A27899PM) at 1:19000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.

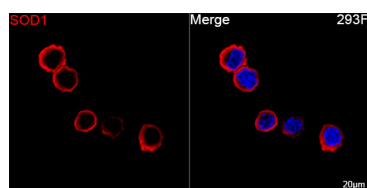


Western blot analysis of lysates from wild type (WT) and SOD1 knockdown (KD) HeLa cells using [KD Validated] SOD1 Rabbit PolymAb® (A27899PM) at 1:19000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.

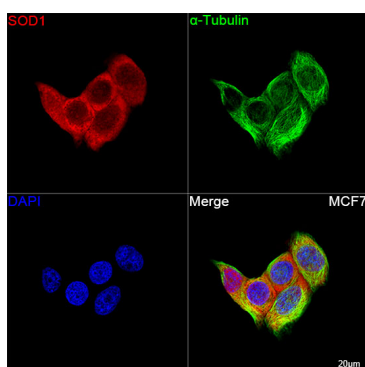
Validation Data



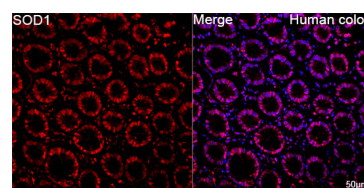
Western blot analysis of lysates from Rat liver using [KD Validated] SOD1 Rabbit PolymAb® (A27899PM) at 1:5000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20s.



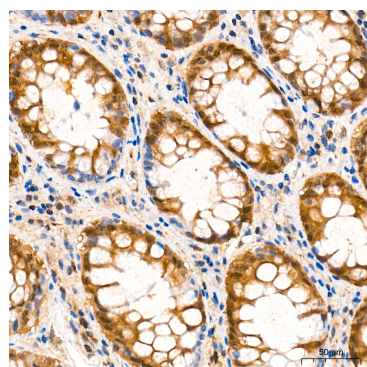
Confocal imaging of 293F cells using [KD Validated] SOD1 Rabbit PolymAb® (A27899PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



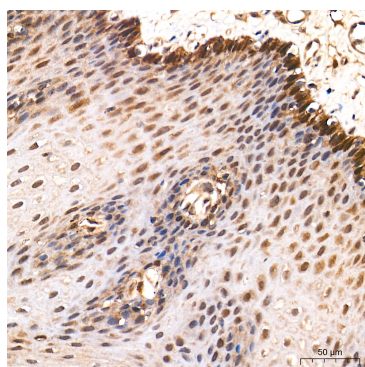
Confocal imaging of MCF7 cells using [KD Validated] SOD1 Rabbit PolymAb® (A27899PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



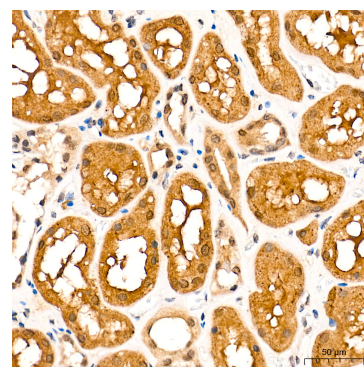
Confocal imaging of paraffin-embedded Human colon tissue using [KD Validated] SOD1 Rabbit PolymAb® (A27899PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Immunohistochemistry analysis of paraffin-embedded Human colon tissue using [KD Validated] SOD1 Rabbit PolymAb® (A27899PM) at a dilution of 1:20000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

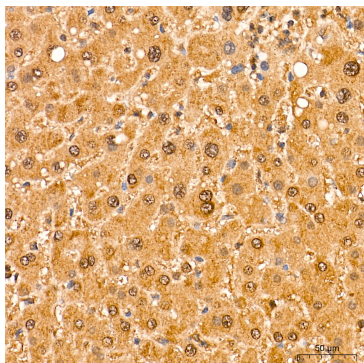


Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using [KD Validated] SOD1 Rabbit PolymAb® (A27899PM) at a dilution of 1:20000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human kidney tissue using [KD Validated] SOD1 Rabbit PolymAb® (A27899PM) at a dilution of 1:20000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Validation Data



Immunohistochemistry analysis of paraffin-embedded Human liver tissue using [KD Validated] SOD1 Rabbit PolymAb® (A27899PM) at a dilution of 1:20000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.