Leader in Biomolecular Solutions for Life Science

[KD Validated] SOD1 Rabbit mAb

Catalog No.: A28901

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Basic Information

Observed MW
16-18 kDa

Calculated MW
16 kDa

Category
Monoclonal Antibodies

Applications
WB, IF/ICC, IF-F, IF-P, IHC-P, ELISA

Cross Reactivity
Human, Mouse, Rat

Clone No.
ARC3664

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. 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	1:3000 - 1:20000
IF/ICC	1:200 - 1:800
IF-F	1:200 - 1:800
IF-P	1:200 - 1:800
IHC-P	1:2000 - 1:8000

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.For high-ratio antibody dilutions (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
6647

Swiss-Prot
P00441

Immunogen
This information is considered to be commercially sensitive.

Synonyms
ALS; SOD; ALS1; IPOA; STAHP; hSod1; HEL-S-44; homodimer; SOD1

Contact

400-999-6126
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www.abclonal.com.cn

Product Information

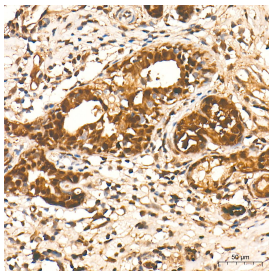
Source
Rabbit

Isotype
IgG

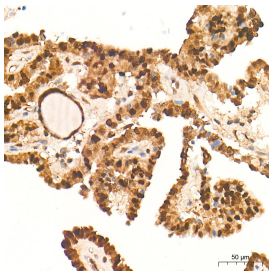
Purity
Affinity purification

Storage
Store at -20℃

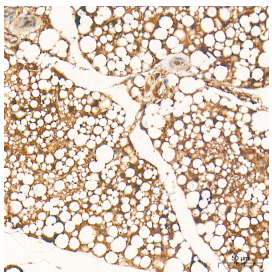
Validation Data



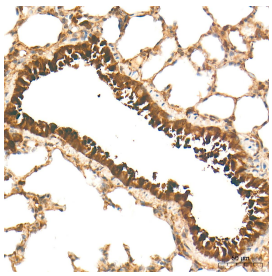
Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using [KD Validated] SOD1 Rabbit mAb (A28901) at a dilution of 1:1600 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



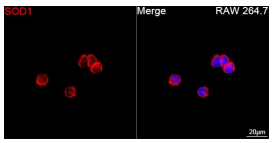
Immunohistochemistry analysis of paraffin-embedded Human thyroid cancer tissue using [KD Validated] SOD1 Rabbit mAb (A28901) at a dilution of 1:1600 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



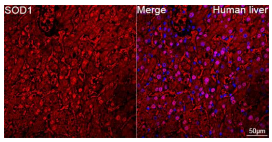
Immunohistochemistry analysis of paraffin-embedded Mouse fat tissue using [KD Validated] SOD1 Rabbit mAb (A28901) at a dilution of 1:1600 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



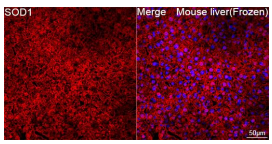
Immunohistochemistry analysis of paraffin-embedded Rat lung tissue using [KD Validated] SOD1 Rabbit mAb (A28901) at a dilution of 1:1600 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



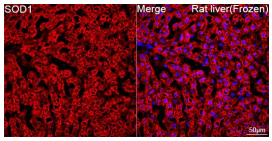
Confocal imaging of RAW 264.7 cells using [KD Validated] SOD1 Rabbit mAb (A28901, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



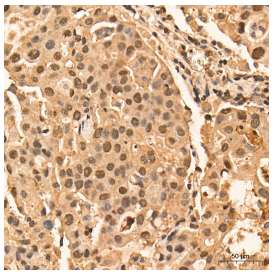
Confocal imaging of paraffin-embedded Human liver tissue using [KD Validated] SOD1 Rabbit mAb (A28901, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01 M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



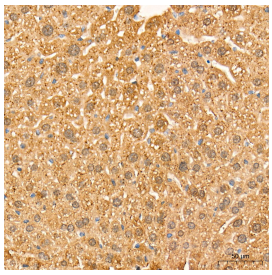
Confocal imaging of frozen sections of Mouse liver tissue using [KD Validated] SOD1 Rabbit mAb (A28901, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



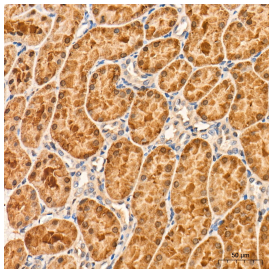
Confocal imaging of frozen sections of Rat liver tissue using [KD Validated] SOD1 Rabbit mAb (A28901, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



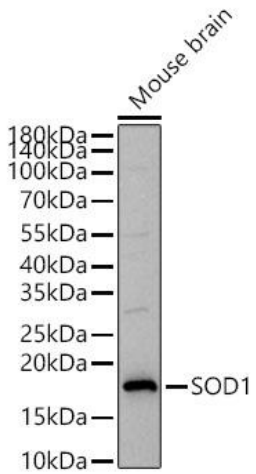
Immunohistochemistry analysis of paraffin-embedded Human lung cancer tissue using [KD Validated] SOD1 Rabbit mAb (A28901) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using [KD Validated] SOD1 Rabbit mAb (A28901) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

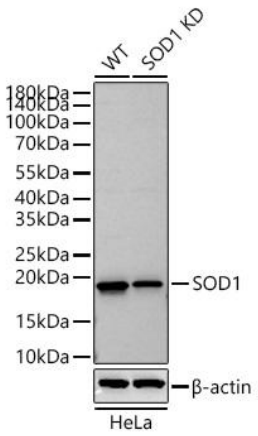


Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using [KD Validated] SOD1 Rabbit mAb (A28901) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Western blot analysis of lysates from Mouse brain using [KD Validated] SOD1 Rabbit mAb (A28901) 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: 1 s.

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Western blot analysis of lysates from wild type (WT) and SOD1 knockdown (KD) HeLa cells using [KD Validated] SOD1 Rabbit mAb (A28901) 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: 30 s.

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