

bs-23402R**[Primary Antibody]****SOD2 Rabbit pAb****Bioss**
ANTIBODIES

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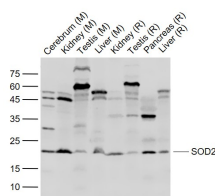
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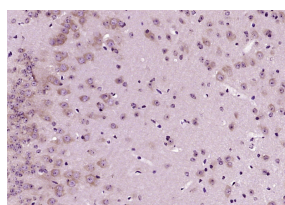
400-901-9800

DATASHEET

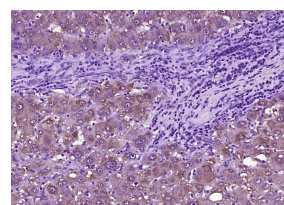
Host: Rabbit Clonality: Polyclonal GeneID: 6648 Target: SOD2 Immunogen: KLH conjugated synthetic peptide derived from human SOD2: 21-120/222. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. 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. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]	Isotype: IgG SWISS: P04179	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Human, Mouse, Rat (predicted: Chicken, Dog, Horse) Predicted MW.: 22 kDa Observed MW.: 22 kDa Subcellular Location: Cytoplasm
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VALIDATION IMAGES

Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug
Lane 2: Kidney (Mouse) Lysate at 40 ug
Lane 3: Testis (Mouse) Lysate at 40 ug
Lane 4: Liver (Mouse) Lysate at 40 ug
Lane 5: Kidney (Rat) Lysate at 40 ug
Lane 6: Testis (Rat) Lysate at 40 ug
Lane 7: Pancreas (Rat) Lysate at 40 ug
Lane 8: Liver (Rat) Lysate at 40 ug
Primary: Anti-SOD2 (bs-23402R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 22 kD
Observed band size: 22 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SOD2) Polyclonal Antibody, Unconjugated (bs-23402R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SOD2) Polyclonal Antibody, Unconjugated (bs-23402R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

SELECTED CITATIONS

- **[IF=8.44]** Li Yingxi. et al. Identification of novel immune subtypes and potential hub genes of patients with psoriasis. J TRANSL MED. 2023 Dec;21(1):1-12 IHC ;Human. 36890558
- **[IF=7.31]** Longfei Xiao. et al. Curcumin Ameliorates Age-Induced Tight Junction Impaired in Porcine Sertoli Cells by Inactivating the NLRP3 Inflammasome through the AMPK/SIRT3/SOD2/mtROS Signaling Pathway. OXID MED CELL LONGEV. 2023;2023:1708251 WB ;Pig,Mouse. 36846717
- **[IF=6.9]** Lichun Qiao. et al. T-2 toxin induces cardiac fibrosis by causing metabolic disorders and up-regulating

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Sirt3/FoxO3 α /MnSOD signaling pathway-mediated oxidative stress. J ENVIRON SCI-CHINA. 2024 Mar;; WB ;Rat. 10.1016/j.jes.2024.03.001

- **[IF=6.208]** Shuang Wang. et al. Paricalcitol Ameliorates Acute Kidney Injury in Mice by Suppressing Oxidative Stress and Inflammation via Nrf2/HO-1 Signaling. INT J MOL SCI. 2023 Jan;24(2):969 IF ;Mouse. 36674485
- **[IF=5.785]** Tian-Ning Yang. et al. DEHP triggers a damage severity grade increase in the jejunum in quail (*Coturnix japonica*) by disturbing nuclear xenobiotic receptors and the Nrf2-mediated defense response. ENVIRON TOXICOL PHAR. 2022 Nov;;104012 WB ;Quail. 36372389