

bs-20668R**[Primary Antibody]****Bioss**
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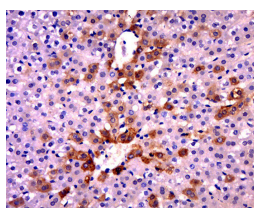
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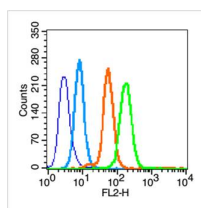
400-901-9800

SOD2 Rabbit pAb**— DATASHEET —**

Host: Rabbit Clonality: Polyclonal GeneID: 6648 Target: SOD2 Immunogen: KLH conjugated synthetic peptide derived from human SOD2: 51-110/222. 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: IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Flow-Cyt (1µg/Test)
		Reactivity: Human, Rat (predicted: Mouse, Rabbit, Pig, Sheep, Cow, Horse)
		Predicted MW.: 22 kDa
		Subcellular Location: Cytoplasm

— VALIDATION IMAGES —

Paraformaldehyde-fixed, paraffin embedded (rat liver); 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 (SOD 2) Polyclonal Antibody, Unconjugated (bs-20668R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Blank control (blue line): Hep G2 (fixed with 70% ethanol (Overnight at 4°C) and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature). Primary Antibody (green line): Rabbit Anti-SOD2 antibody (bs-20668R), Dilution: 1µg /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE, Dilution: 1µg /test.

— SELECTED CITATIONS —

- **[IF=14.528]** Xu D et al. Melatonin protects mouse testes from palmitic acid-induced lipotoxicity by attenuating oxidative stress and DNA damage in a SIRT1-dependent manner. J Pineal Res. 2020 Aug 6;e12690. IF ;mouse. 32761924
- **[IF=14.528]** Dejun Xu. et al. Melatonin protects mouse testes from palmitic acid - induced lipotoxicity by attenuating oxidative stress and DNA damage in a SIRT1 - dependent manner. J Pineal Res. 2020 Nov;69(4):e12690 WB ;Mouse. 32761924