

bs-20667R**[Primary Antibody]****SOD2 Rabbit pAb****Bioss**
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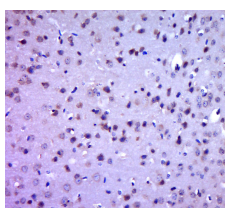
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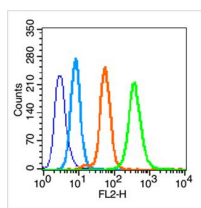
— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Flow-Cyt (1µg/Test) Reactivity: Human, Mouse (predicted: Rat, Rabbit, Pig, Sheep, Cow, Dog) Predicted MW.: 22 kDa Subcellular Location: Cytoplasm
Clonality: Polyclonal		
GeneID: 6648	SWISS: P04179	
Target: SOD2		
Immunogen: KLH conjugated synthetic peptide derived from human SOD2: 101-160/222.		
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]		

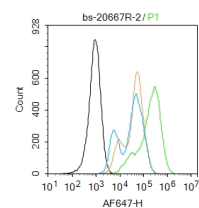
— VALIDATION IMAGES —



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); 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-20667R) at 1:400 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-20667R), Dilution: 0.2µg /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE, Dilution: 1µg /test.



Blank control: Raw264.7. Primary Antibody (green line): Rabbit Anti-SOD2 antibody (bs-20667R) Dilution: 2µg /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF647 Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 0.1% PBST for 20 min at -20°C. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=5.81]** Xinyue Chang. et al. The Protective Effect of Trichilia catigua A. Juss. on DEHP-Induced Reproductive System Damage in Male Mice. Front Pharmacol. 2022; 13: 832789 IHC ;Mouse. 35185586
- **[IF=4.8]** Shuang Wang. et al. Dioscin exerts nephroprotective effects by attenuating oxidative stress and necroptosis-

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induced inflammation. INT IMMUNOPHARMACOL. 2024 Oct;140:112885 IF ;Rat. 39116496

- **[IF=4.087]** Zhang Y et al . Gentiopicroside prevents alcoholic liver damage by improving mitochondrial dysfunction in the rat model. Phytother Res. 2020 Dec 10. WB ;Rat. 33300653
- **[IF=4.087]** Zhang Y et al. Gentiopicroside prevents alcoholic liver damage by improving mitochondrial dysfunction in the rat modelPhytother Res.2020 Dec 10. WB ;Rat. 33300653