bs-3895R **[Primary Antibody]**

SOD3 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 6649 **SWISS:** P08294

Target: SOD3

Immunogen: KLH conjugated synthetic peptide derived from human SOD3: 227-240/240.

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 encodes a member of the superoxide dismutase (SOD) protein family. SODs are antioxidant enzymes that catalyze the dismutation of two superoxide radicals into hydrogen peroxide and oxygen. The product of this gene is thought to protect the brain, lungs, and other tissues from oxidative stress. The protein is secreted into the extracellular space and forms a glycosylated homotetramer that is anchored to the extracellular matrix (ECM) and cell surfaces through an interaction with heparan sulfate proteoglycan and collagen. A fraction of the protein is cleaved near the C-terminus before secretion to generate circulating tetramers that do not interact with the ECM. [provided by RefSeq, Jul 2008]

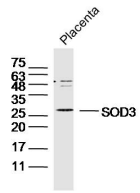
Applications: **WB** (1:500-2000)

Reactivity: Mouse (predicted: Human, Rat, Rabbit, Pig, Sheep, Cow, Dog, Horse)

Predicted MW.: 24 kDa

Subcellular Location: Secreted ,Extracellular matrix

VALIDATION IMAGES



Sample: Placenta (Mouse) Lysate at 40 ug
Primary: Anti-SOD3(bs-3895R)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 24kD
Observed band size: 27kD

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=5.195]** Xin Zhao. et al. Diammonium glycyrrhizinate ameliorates portal hypertension by regulating portal macrophage oxidation and superoxide dismutase 3. EUR J PHARMACOL. 2022 Jun;:175115 IHC ;Rat. 35738453
- **[IF=3.221]** Kobayashi T et al. The characteristic regulation of gene expression Lbp and Sod3 in peri‐implant connective tissue of rats. J Biomed Mater Res A. 2019 Nov 12. IHC ;Rat. 31714656
- **[IF=0]** SUKADANA IM et al. The Intake of Inocarpus Fagiferus Fosb Stem Bark N-Buthanol Extract Caused the Increase Expression of Sod-2 and Sod-3 Aortic Endhotelial Cells of Hypercholesterolemia Rats. Biomedical and Pharmacology Journal.2017, 10(4):1773-1777 · WB ;Rat. doi:10.13005/bpj/1291