



## International Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB10972 - Goat Anti-MNSOD (aa119-130) Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** SOD2, superoxide dismutase 2, mitochondrial, RP1-56L9.2, IPOB, MNSOD, MVCD6, Mn superoxide dismutase, indophenoloxidase B, manganese-containing superoxide dismutase, superoxide dismutase [Mn], mitochondrial

**Official Symbol:** SOD2

**Accession Number(s):** NP\_000627.2; NP\_001019637.1

**Human GeneID(s):** [6648](#)

**Non-Human GeneID(s):** 20656 (mouse), 24787 (rat)

**Important Comments:** NB: The immunizing peptide represents the acetylation site including K122 according to isoform A. This antibody is expected to recognize both reported isoforms (NP\_000627.2; NP\_001019637.1). Reported variants represent identical protein: NP\_000627.2; NP\_001019637.1.

### Immunogen

Peptide with sequence C-EAIKRDFGSFDK, from the internal region of the protein sequence according to NP\_000627.2; NP\_001019637.1.

Please note the [peptide](#) is available for sale.

### Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

### Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:64000.

**Western blot:** Approx 24kDa band observed in Human Brain (cerebellum) lysates and in Mouse and Rat Brain and Spinal Cord lysates, while approx 26kDa band was observed in lysates of cell lines HeLa, HepG2, HEK293 and NIH3T3 (calculated MW of 24.8kDa according to Human NP\_000627.2, and 24.6kDa according to Mouse NP\_038699.2).

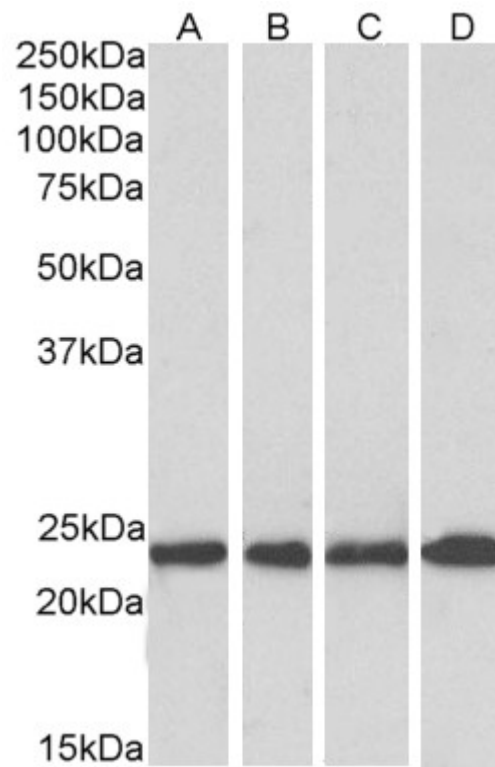
Recommended concentration: 0.01-0.1µg/ml. Primary incubation was 1 hour.

**IHC:** Paraffin embedded Human Skeletal Muscle. Recommended concentration: 5µg/ml.

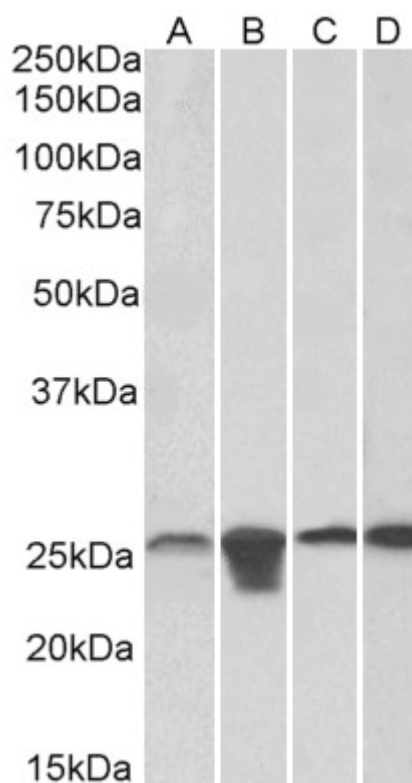
### Species Reactivity

**Tested:** Human, Mouse, Rat, Pig

**Expected from sequence similarity:** Human, Mouse, Rat, Dog, Pig, Cow, Zebrafish



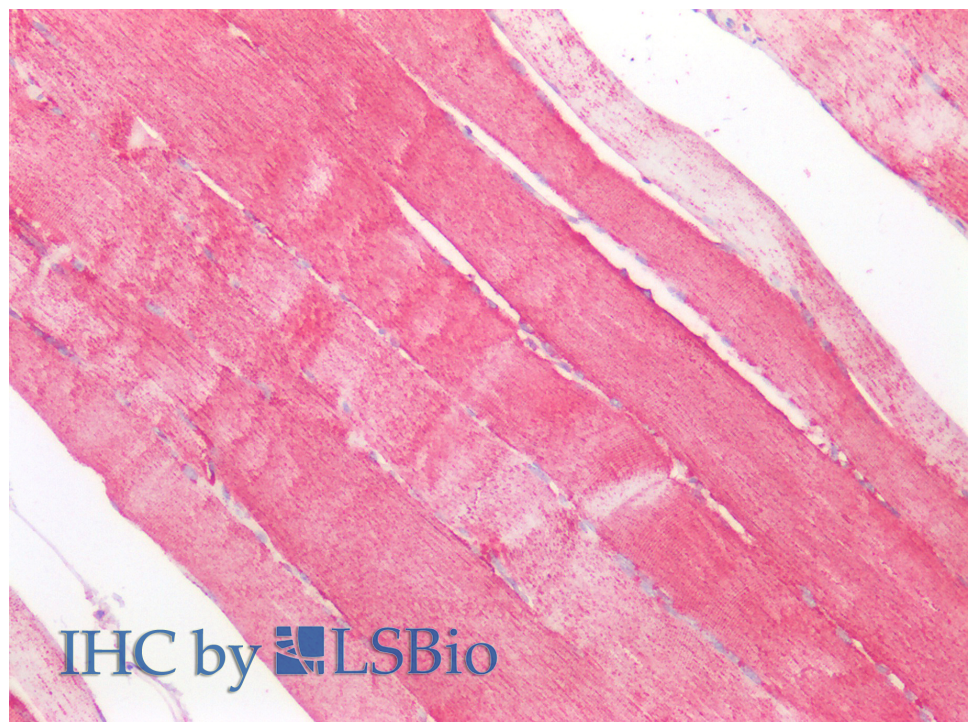
EB10972 (0.3 $\mu$ g/ml) staining of Human Cerebellum (A), Mouse Brain (B), Rat Brain (C) and Pig Brain (D) lysates (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



EB10972 (0.1 $\mu$ g/ml) staining of HeLa, HepG2, HEK293 and NIH3T3 (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



EB10972 (0.01 $\mu$ g/ml) staining of Mouse (A) and Rat (B) Spinal Cord lysates (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



EB10972 (5 $\mu$ g/ml) staining of paraffin embedded Human Skeletal Muscle. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.