

## UK Office

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

## EB07208 - Goat Anti-SOD1 Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** SOD1, superoxide dismutase 1, soluble (amyotrophic lateral sclerosis 1 (adult)), HGNC:11179, ALS, ALS1, IPOA, SOD, Cu/Zn superoxide dismutase, SOD, soluble, indophenoloxidase A, superoxide dismutase 1, soluble, superoxide dismutase, cystolic, HEL-S-44, hSod1, epididymis secretory protein Li 44

**Official Symbol:** SOD1

**Accession Number(s):** NP\_000445.1

**Human GeneID(s):** [6647](#)

**Non-Human GeneID(s):** 20655 (mouse), 24786 (rat)

### Immunogen

Peptide with sequence C-SRKHGGPKDEERH, from the internal region of the protein sequence according to NP\_000445.1.

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 1:8000.

**Western blot:** Approx 18kDa band observed in Mouse Brain lysates, in purified membranes of cell line HeLa and in lysates of NIH3T3. Approx 20kDa observed in HEK293, HepG2 and MCF7 (calculated MW of 15.9kDa according to human NP\_000445.1, mouse NP\_035564.1 and rat NP\_058746.1). Recommended concentration: 0.01-0.03µg/ml. Primary incubation was 1 hour.

**Enzyme immunoassay:** Sandwich-type ELISA with increasing amount of recombinant SOD1 captured by a rabbit antibody. Recommended reporter concentration: 1-2ug/ml

### Species Reactivity

**Tested:** Human, Mouse

**Expected from sequence similarity:** Human, Mouse, Rat, Dog

### Specific Reference

**This antibody has been successfully used in Western blot on Mouse:**

Frazziano G, Al Ghoulh I, Baust J, Shiva S, Champion HC, Pagano PJ.

Nox-derived ROS are acutely activated in pressure overload pulmonary hypertension: indications for a seminal role for mitochondrial Nox4.

Am J Physiol Heart Circ Physiol. 2014 Jan 15;306(2):H197-205.

PMID: 24213612

EB07208 (0.02µg/ml) staining of Mouse Brain lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB07208 (0.01µg/ml) staining of NIH3T3 (A), HEK293 (B), HepG2 (C) and MCF7 (D) lysates (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB07208 (1.5ug/ml) as the reporter with EB002010 as the capture rabbit antibody (5ug/ml).