

UK Office

Everest Biotech Ltd

Cherwell Innovation Centre
77 Heyford Park
Upper Heyford
Oxfordshire
OX25 5HD
UK

Enquiries:

info@everestbiotech.com

Sales:

sales@everestbiotech.com

Tech support:

support@everestbiotech.com

Tel: +44 (0)1869 238326

www.everestbiotech.com

**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).