BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-EC SOD SOD3 Antibody

Catalog Number: A01784

About SOD3

SOD3 (SUPEROXIDE DISMUTASE 3) also called SUPEROXIDE DISMUTASE, EXTRACELLULAR, EC-SOD, and Cu-Zn, is an enzyme that in humans is encoded by the SOD3 gene. 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. Hendrickson et al. (1990) mapped the SOD3 gene to 4pter-q21 by a study of somatic cell hybrids. Stern et al. (2003) narrowed the assignment to 4p15.3-p15.1 by somatic cell and radiation hybrid analysis, linkage mapping, and FISH. The product of this gene is though 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.

Overview

Product Name	Anti-EC SOD SOD3 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-EC SOD SOD3 Antibody catalog # A01784. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol and 0.09% sodium azide.
Storage Instructions	Store beta-Actin Loading Control Antibody at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening.
Host	Rabbit
Uniprot ID	P08294

Technical Details

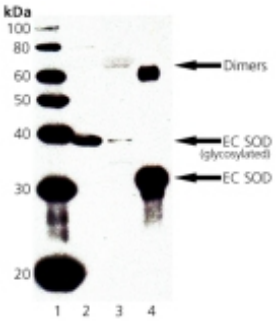
Immunogen	Synthetic peptide corresponding to a portion of EC SOD. The sequence is completely conserved in human, mouse, rat and rabbit.
Predicted Reactive Species	Bovine, Goat, Guinea Pig, Hamster, Monkey, Sheep
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Protein A affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB, 1:1, 000, ECL, Human, Mouse, Rat

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-EC SOD SOD3 Antibody (A01784) Images



Western blot analysis of EC SOD expression in MW Marker (lane 1), rat lung extract (lane 2), mouse lung extract (lane 3) and Human EC SOD Protein (lane 4). EC SOD at 35-40KD was detected using rabbit anti-EC SOD Antigen Affinity purified polyclonal antibody (Catalog # A01784) at 1:1000. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).

2 Publications Citing This Product

1. PubMed ID: 25625183, Epigallocatechin%u20103%u2010Gallate Attenuates Oxidative Stress and Inflammation in Obstructive Nephropathy via NF%u2010%u03BAB and Nrf2/HO%u20101 Signalling Pathway Regulation

2. PubMed ID: 22489155, Long Sh, Yu Zq, Shuai L, Guo Yl, Duan Dl, Xu Xy, Li Xd. Int J Mol Sci. 2012;13(3):3354-65. Doi: 10.3390/Ijms13033354. Epub 2012 Mar 12. The Hypoglycemic Effect Of The Kelp On Diabetes Mellitus Model Induced By Alloxan In Rats.

Visit bosterbio.com/anti-ec-sod-antibody-a01784-boster.html to see all 2 publications.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a $20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.