

Rabbit anti-Human Superoxide Dismutase 3 Polyclonal Antibody | anti-SOD3 antibody

Anti-Superoxide Dismutase 3 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA45440	Rabbit	Human	Immunocytochemistry, Immunohistochemistry, Immunohistochemistry, Western Blot

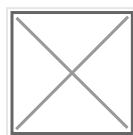
PRODUCT SYNONYMS

Superoxide Dismutase 3; Polyclonal Antibody; Anti-Superoxide Dismutase 3 antibody; Extracellular superoxide dismutase[Cu-Zn]; superoxide dismutase 3; extracellular; EC SOD antibody; EC-SOD antibody; Extracellular superoxide dismutase[Cu Zn] antibody; Extracellular superoxide dismutase[Cu-Zn] antibody; Extracellular superoxide dismutase antibody; Extracellular superoxide dismutase precursor antibody; MGC20077 antibody; SOD 3 antibody; SOD3 antibody; SODE_HUMAN antibody; Superoxide dismutase 3 extracellular antibody; anti-SOD3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	240
Applicable Applications for anti-SOD3 antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human SOD3 (41-56aa KVTEIWQEVMQRRDDD)
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Reconstitution	0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

IMAGES



WB (Western Blot)

Anti-SOD3 antibody, AAA45440, Western blotting
Lane 1: Human Placenta Tissue Lysate
Lane 2: A549 Cell Lysate
Lane 3: MM231 Cell Lysate
Lane 4: MCF-7 Cell Lysate

ADDITIONAL INFORMATION

Related Product Information for anti-SOD3 antibody	<p>Description: Rabbit IgG polyclonal antibody for Extracellular superoxide dismutase[Cu-Zn](SOD3) detection. Tested with WB, IHC-P, IHC-F, ICC in Human.</p> <p>Background: 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 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.</p>
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NCBI AND UNIPROT INFORMATION

NCBI GI #	108885292
NCBI GeneID	6649
UniProt Accession #	P08294; Q5U781; Q6FHA2
NCBI Official Full Name	Extracellular superoxide dismutase
NCBI Official Synonym Full Names	superoxide dismutase 3, extracellular
NCBI Official Symbol	SOD3
NCBI Official Synonym Symbols	EC-SOD
NCBI Protein Information	extracellular superoxide dismutase [Cu-Zn]; extracellular superoxide dismutase [Cu-Zn]
UniProt Protein Name	Extracellular superoxide dismutase [Cu-Zn]
UniProt Gene Name	SOD3
UniProt Synonym Gene Names	EC-SOD
UniProt Entry Name	SODE_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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