

Rabbit SOD2/MnSOD Polyclonal Antibody | anti-SOD2/MnSOD antibody

Acetyl-SOD2/MnSOD (Lys122) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329428	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (91%), Sheep (100%), Rabbit (100%), Xenopus (82%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

SOD2/MnSOD; Polyclonal Antibody; Acetyl-SOD2/MnSOD (Lys122) Antibody; Indophenoloxidase B; IPO B; IPOB; Manganese containing superoxide dismutase; Manganese SOD; Manganese superoxide dismutase; Mangano superoxide dismutase; Mn SOD; Mn superoxide dismutase; MNSOD; MVCD6; SOD 2; SOD2; SODM_HUMAN; Superoxide dismutase [Mn] mitochondrial; Superoxide dismutase [Mn]; mitochondrial; Superoxide dismutase 2 mitochondrial; anti-SOD2/MnSOD antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (91%), Sheep (100%), Rabbit (100%), Xenopus (82%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Acetyl-SOD2/MnSOD (Lys122) Antibody detects endogenous levels of Acetyl-SOD2/MnSOD only when acetylated at Lys122.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-SOD2/MnSOD antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SOD2/MnSOD around the acetylation site of Lys122.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Nitrated under oxidative stress. Nitration coupled with oxidation inhibits the catalytic activity. Acetylation at Lys-122 decreases enzymatic activity. Deacetylated by SIRT3 upon exposure to ionizing radiations or after long fasting (By similarity).Polyubiquitinated; leading to proteasomal degradation. Deubiquitinated by USP36 which increases protein stability.
Subunit Structure	Homotetramer.
Similarity	Belongs to the iron/manganese superoxide dismutase family.
Subcellular Location	Mitochondrion matrix.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohiostchemistry)
Staining Human colorectal cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from Mouse liver, using Acetyl-SOD2/MnSOD (Lys122) Antibody.Lane1 was treated with Ac-blocking peptide.Lane2 was treated with Non-Ac-blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SOD2/MnSOD antibody	Destroys superoxide anion radicals which are normally produced within the cells and which are toxic to biological systems.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	134665
NCBI GeneID	6648
UniProt Accession #	P04179; P78434; Q16792; Q5TCM1; Q96EE6; Q9P2Z3; B2R7R1; B3KUK2; B4DL20; B4E3K9; E1P5A9
Molecular Weight	222
NCBI Official Full Name	Superoxide dismutase
NCBI Official Synonym Full Names	superoxide dismutase 2, mitochondrial
NCBI Official Symbol	SOD2
NCBI Official Synonym Symbols	IPOB; MNSOD; MVCD6
NCBI Protein Information	superoxide dismutase [Mn], mitochondrial; superoxide dismutase [Mn], mitochondrial; indophenoloxidase B; Mn superoxide dismutase; mangano-superoxide dismutase; manganese-containing superoxide dismutase
UniProt Protein Name	Superoxide dismutase [Mn], mitochondrial
UniProt Gene Name	SOD2
UniProt Entry Name	SODM_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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Online datasheet: <https://stage.aaabiotech.com/polyclonal/sod2-mnsod-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329428>