

Rabbit anti-Human SOD2/Mn-SOD Polyclonal Antibody | anti-SOD2 antibody

Anti-SOD2/Mn-SOD Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255604	Rabbit	Human	Immunoprecipitation, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

SOD2/Mn-SOD; Polyclonal Antibody; Anti-SOD2/Mn-SOD Antibody; Rabbit Polyclonal; SOD2 Antibody; Rabbit PAb; Antigen Affinity Purified; superoxide dismutase 2; mitochondrial; Anti-IPOB Antibody; Anti-MNSOD Antibody; Anti-MVCD6 Antibody; anti-SOD2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human SOD2
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-SOD2 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Immunogen	Recombinant Human SOD2 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human SOD2 (rh SOD2). SOD2 specific IgG was purified by Human SOD2 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

SOD2 was immunoprecipitated using: Lane A: 0.5 mg HeLa Whole Cell Lysate Lane B: 0.5 mg HEPG2 Whole Cell Lysate Lane C: 0.5 mg 293T Whole Cell Lysate 4 uL anti-SOD2 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-SOD2 rabbit polyclonal antibody, at 1:100 dilution Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 24 kDa Observed band size: 24 kDa



WB (Western Blot)

Anti-SOD2 rabbit polyclonal antibody at 1:500 dilution Lane A: HeLa Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 24 kDa Observed band size: 25 kDa (We are unsure as to the identity of these extra bands).

**IHC (Immunohistochemistry)**

Immunochemical staining of human SOD2 in human colon carcinoma with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).

**IHC (Immunohistochemistry)**

Immunochemical staining of human SOD2 in human kidney with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).

**IHC (Immunohistochemistry)**

Immunochemical staining of human SOD2 in human placenta with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-SOD2 antibody	Superoxide dismutases (SOD) are important anti-oxidant enzymes that guard against superoxide toxicity. In humans, as in all mammals and most chordates, three forms of superoxide dismutase (SOD) are present: SOD1 is located in the cytoplasm, SOD2 in the mitochondria, and SOD3 is extracellular. Mitochondrial superoxide dismutase [SOD; manganese SOD (MnSOD) or SOD2] neutralizes highly reactive superoxide radical (O ⁻²), the first member in the plethora of mitochondrial reactive oxygen species.
References	Culotta VC, et al. (2006) Activation of superoxide dismutases: putting the metal to the pedal. <i>Biochim Biophys Acta</i> . 1763(7): 747-58. Bag A, et al. (2008) Target sequence polymorphism of human manganese superoxide dismutase gene and its association with cancer risk: a review. <i>Cancer Epidemiol Biomarkers Prev</i> . 17(12): 3298-305. Diehl C, et al. (2009) The basis of topical superoxide dismutase antipruritic activity. <i>Acta Dermatovenerol Croat</i> . 17(1): 25-39. Ma X, et al. (2010) No association between SOD2 Val16Ala polymorphism and breast cancer susceptibility: a meta-analysis based on 9, 710 cases and 11, 041 controls. <i>Breast Cancer Res Treat</i> . 122(2): 509-14.

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/sod2-mn-sod-antibody-immunoprecipitation-immunohistochemistry-western-blot-elisa/255604>