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

Recombinant Anti-SOD2/Mn-SOD Antibody, Rabbit Monoclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255602	**Rabbit**	**Human**	**Immunoprecipitation, ELISA, Western Blot**

PRODUCT SYNONYMS

SOD2/Mn-SOD; Monoclonal Antibody; Recombinant Anti-SOD2/Mn-SOD Antibody; Rabbit Monoclonal; SOD2 Antibody; Rabbit MAb; superoxide dismutase 2; mitochondrial; Anti-IPOB Antibody; Anti-MNSOD Antibody; Anti-MVCD6 Antibody; anti-SOD2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	001
Specificity	Human SOD2
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-SOD2 antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human SOD2 protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human SOD2 (rh SOD2).
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

WB (Western Blot)
Anti-SOD2 rabbit monoclonal antibody at 1:10000 dilutionLane A: Hela Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.Developed using the Odyssey technique.Performed under reducing conditions.Predicted band size:25 kDaObserved band size:25 kDa

IP (Immunoprecipitation)
SOD2 was immunoprecipitated using:Lane A:0.5 mg Hela Whole Cell LysateLane B:0.5 mg HepG2 Whole Cell Lysate2 uL anti-SOD2 rabbit monoclonal antibody and 15 ul of 50 % Protein G agarose.Primary antibody:Anti-SOD2 rabbit monoclonal antibody,at 1:100 dilutionSecondary antibody:Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilutionDeveloped using the odssey technique.Performed under reducing conditions.Predicted band size: 16 kDaObserved band size: 18 kDa

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. Biochim Biophys Acta. 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. Cancer Epidemiol Biomarkers Prev. 17(12): 3298-305.Diehl C, et al. (2009) The basis of topical superoxide dismutase antipruritic activity. Acta Dermatovenerol Croat. 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. Breast Cancer Res Treat. 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/monoclonal/sod2-mn-sod-antibody-clone-001-immunoprecipitation-western-blot-elisa/255602