Rabbit anti-Human, Pig Superoxide Dismutase 2, Mitochondrial (SOD2) Polyclonal Antibody | anti-SOD2 antibody

Polyclonal Antibody to Superoxide Dismutase 2, Mitochondrial (SOD2)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA20109	**Rabbit**	**Human, Pig**	**Immunocytochemistry, Immunohistochemistry, ELISA, Western Blot, Immunoprecipitation, Immunofluorescence, Flow Cytometry, Functional Assay**

PRODUCT SYNONYMS

Superoxide Dismutase 2; Mitochondrial (SOD2); Polyclonal Antibody; Polyclonal Antibody to Superoxide Dismutase 2; anti-SOD2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Pig
Clonality	Polyclonal
Specificity	The antibody is a rabbit polyclonal antibody raised against SOD2. It has been selected for its ability to recognize SOD2 in immunohistochemical staining andwestern blotting.
Purity/Purification	Antigen-specific Affinity Chromatography.
Form/Format	Supplied as solution form in PBS, pH7.4, containing 0.02% NaN3, 50% glycerol.
Concentration	500ug/mL (varies by lot)
Sequence	Ant igen:Thetarge tproteinis fusedwitha His-tagand itssequenc eislistedb elow. M GHHHHHHSGS EF-KHSLPDL PYDYGALEPH INAQIMQLHH SKHHAAYVNN LNVTEEKYQE ALAKGDVTAQ IALQPALKFN GGGHINHSIF WTNLSPNGGG EPKGELLEAI KRDFGSFDKF KEKLTAASVG VQGSGWGWLG FNKERGHLQI AACPNQDPLQ GTTGLIPLLG IDVWEHAYYL QYKNVRPDYL KAIWNVINWE NVTERYMACK K
Sequence Length	222
Applicable Applications for anti-SOD2 antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), ELISA, WB (Western Blot), IP (Immunoprecipitation), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Application Notes	Western blotting: 0.5-2ug/ml Immunocytochemistry in formalin fixed cells: 5-20ug/ml Immunohistochemistry in formalin fixed frozen section: 5-20ug/ml Immunohistochemistry in paraffin section: 5-20ug/ml Enzyme-linked Immunosorbent Assay: 0.05-2ug/ml Optimal working dilutions must be determined by end user.
Source	Polyclonal antibody preparation
Traits	Liquid
Immunogen	Recombinant Superoxide Dismutase 2, Mitochondrial (SOD2)
Cross Reactivity	Human, Pig

Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 4 degree C for frequent use. Aliquot and store at -20 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed.The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



Knockout Validation
Knockout Validation: Lane 1: Wild-type MCF7 cell lysate; Lane 2: SOD2 knockout MCF7 cell lysate; Predicted MW: 18,20,21,25kd Observed MW: 21kd Primary Ab: 3ug/ml Rabbit Anti-Human SOD2 Antibody Second Ab: 0.2ug/mL HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody (Human.



WB (Western Blot)
Western Blot: Sample. Lane1: Human Serum; Lane2: Porcine Liver Tissue; Lane3: Human HeLa Cells; Lane4: Porcine Brain Tissue; Lane5: Human MCF-7 Cells.

ADDITIONAL INFORMATION

Product Categories/Family for anti-SOD2 antibody	Knock-Out Validation Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	67782305
NCBI GeneID	6648
NCBI Accession #	NP_000627.2
NCBI GenBank Nucleotide #	NM_000636.3
UniProt Accession #	P04179; P78434; Q16792; Q5TCM1; Q96EE6; Q9P2Z3; B2R7R1; B3KUK2; B4DL20; B4E3K9; E1P5A9
Molecular Weight	19,730 Da
NCBI Official Full Name	superoxide dismutase
NCBI Official Synonym Full Names	superoxide dismutase 2
NCBI Official Symbol	SOD2
NCBI Official Synonym Symbols	IPOB; IPO-B; MNSOD; MVCD6; Mn-SOD
NCBI Protein Information	superoxide dismutase [Mn], mitochondrial
UniProt Protein Name	Superoxide dismutase [Mn], mitochondrial
UniProt Gene Name	**SOD2**

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/superoxide-dismutase-2-mitochondrial-sod2-antibody-immunocytochemistry-immunohistochemistry-western-blot-immunoprecipitation-immunofluorescence-flow-cytometry-elisa/20109