

Rabbit SOD2 Polyclonal Antibody | anti-SOD2 antibody

SOD2 Rabbit pAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28427	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunocytochemistry

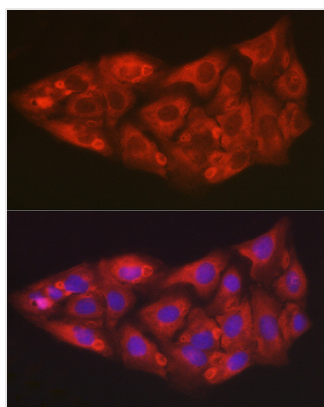
PRODUCT SYNONYMS

SOD2; Polyclonal Antibody; SOD2 Rabbit pAb; IPO-B; IPOB; MNSOD; MVCD6; Mn-SOD; superoxide dismutase 2; anti-SOD2 antibody

PRODUCT SPECIFICATIONS

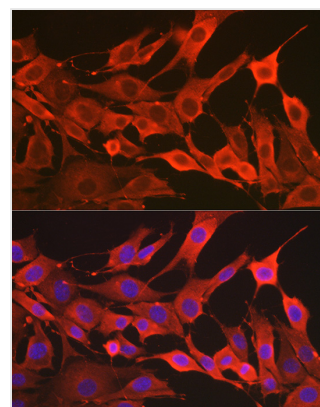
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.01% thiomersal, 50% glycerol, pH7.3.
Sequence	ADNGGLKAA Y RAYQNWVKK N GAEHSLPTLG LTNNQLFFLG FAQVWCSVRT PESSHEGLIT DPHSPSRFRV IGSLSNSKEF SEHFRCPGGS PMNPPHKCEV W
Applicable Applications for anti-SOD2 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry)
Application Notes	IF/ICC: 1:50-1:200
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 25-222 of human SOD2 (NP_000627.2).
Cellular Location	Mitochondrion matrix
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



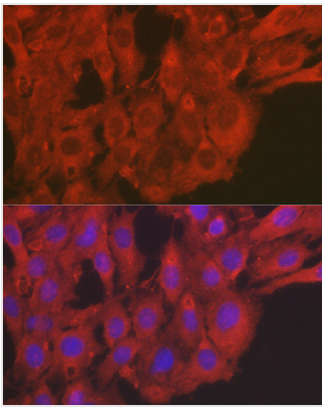
IF (Immunofluorescence)

Immunofluorescence analysis of U2OS cells using [KO Validated] SOD2 Rabbit pAb at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.



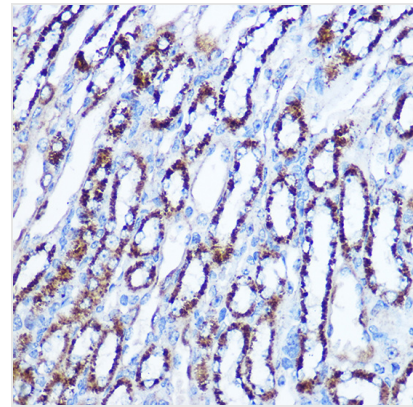
IF (Immunofluorescence)

Immunofluorescence analysis of NIH/3T3 cells using [KO Validated] SOD2 Rabbit pAb at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.



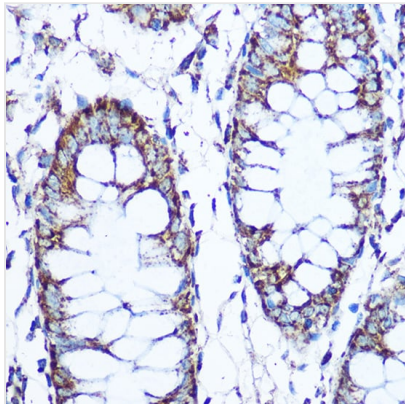
IF (Immunofluorescence)

Immunofluorescence analysis of C6 cells using [KO Validated] SOD2 Rabbit pAb at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.



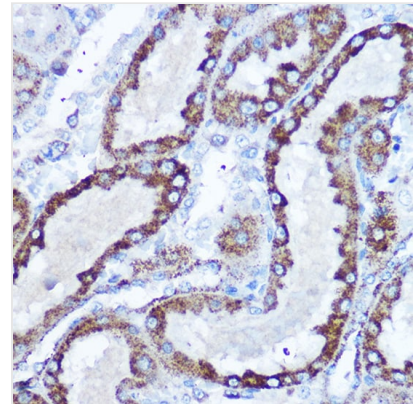
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded mouse kidney using SOD2 Rabbit pAb at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human colon using SOD2 Rabbit pAb at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded rat kidney using SOD2 Rabbit pAb at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

ADDITIONAL INFORMATION

Related Product Information for anti-SOD2 antibody	This gene is a member of the iron/manganese superoxide dismutase family. It encodes a mitochondrial protein that forms a homotetramer and binds one manganese ion per subunit. This protein binds to the superoxide byproducts of oxidative phosphorylation and converts them to hydrogen peroxide and diatomic oxygen. Mutations in this gene have been associated with idiopathic cardiomyopathy (IDC), premature aging, sporadic motor neuron disease, and cancer. Alternative splicing of this gene results in multiple transcript variants. A related pseudogene has been identified on chromosome 1.
Product Categories/Family for anti-SOD2 antibody	Cancer ; Signal Transduction ; Cell Biology & Developmental Biology ; Apoptosis ; Endocrine & Metabolism ; Mitochondrial metabolism ; Mitochondrial markers ; Neuroscience ; Neurodegenerative Diseases ; Cardiovascular ; Hypoxia ; Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	164519136
NCBI GeneID	1889
NCBI Accession #	NP_001106818.1
NCBI GenBank Nucleotide #	NM_001113347.1
UniProt Accession #	P42892 ; Q14217 ; Q17RN5 ; Q2Z2K8 ; Q58GE7 ; Q5THM5 ; Q5THM7 ; Q5THM8 ; Q9UJQ6 ; Q9UPF4 ; A8K3P1 ; B4E291
Molecular Weight	770

NCBI Official Full Name	endothelin-converting enzyme 1 isoform 3
NCBI Official Synonym Full Names	endothelin converting enzyme 1
NCBI Official Symbol	ECE1
NCBI Official Synonym Symbols	ECE
NCBI Protein Information	endothelin-converting enzyme 1; ECE-1
UniProt Protein Name	Endothelin-converting enzyme 1
UniProt Gene Name	ECE1
UniProt Synonym Gene Names	ECE-1
UniProt Entry Name	ECE1_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-antibody-immunofluorescence-immunocytochemistry-elisa/28427>