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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Product Number	ARP58529_P050-Biotin
Product Page	www.avivasysbio.com/sod2-antibody-n-terminal-region-biotin-arp58529-p050-biotin.html
Name	SOD2 Antibody - N-terminal region : Biotin (ARP58529_P050-Biotin)
Protein Size (# AA)	222 amino acids
Molecular Weight	24kDa
Conjugation	Biotin
NCBI Gene Id	6648
Host	Rabbit
Clonality	Polyclonal
Concentration	0.5 mg/ml
Gene Full Name	Superoxide dismutase 2, mitochondrial
Alias Symbols	IPOB, IPO-B, MNSOD, MVCD6, GCInc1, Mn-SOD
Peptide Sequence	Synthetic peptide located within the following region: MLSRAVCGTSRQLAPVLGYLGSRQKHSLPDLPYDYGALEPHINAQIMQLH
Product Format	Liquid. Purified antibody supplied in 1x PBS buffer.
Reference	Martin,R.C., (2008) DNA Cell Biol. 27 (6), 321-323
Description of Target	SOD2 is a member of the iron/manganese superoxide dismutase family. SOD2 is 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 encoding SOD2 have been associated with idiopathic cardiomyopathy (IDC), premature aging, sporadic motor neuron disease, and cancer. 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. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.
Protein Interactions	CYP4F12; UBC; SOD2; SOD1; APP; NABP2; TBL2; ZC3H11A; VAPA; STX7; UBL4A; ALDH5A1; USP36; H2AFX; SUMO1; NOL12; HDHD2; GET4; RPS3A; RAB4A; AURKA;
Reconstitution and Storage	All conjugated antibodies should be stored in light-protected vials or covered with a light protecting material (i.e. aluminum foil). Conjugated antibodies are stable for at least 12 months at 4C. If longer storage is desired (24 months), conjugates may be diluted with up to 50% glycerol and stored at -20C to -80C. Freezing and thawing conjugated antibodies will compromise enzyme activity as well as antibody binding.
Datasheets/Manuals	Printable datasheet for anti-SOD2 (ARP58529_P050-Biotin) antibody
Blocking Peptide	For anti-SOD2 (ARP58529_P050-Biotin) antibody is Catalog # AAP58529 (Previous Catalog # AAPP34826)
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human SOD2
Uniprot ID	P04179
Protein Name	Superoxide dismutase [Mn], mitochondrial
Protein Accession #	NP_000627
Purification	Affinity Purified
Nucleotide Accession #	NM_000636
Gene Symbol	SOD2
Predicted Species Reactivity	Human, Mouse, Rat, Cow, Dog, Goat, Guinea Pig, Horse, Rabbit, Sheep, Zebrafish
Application	WB

Predicted Homology Based on Immunogen Sequence	Cow: 100%; Dog: 100%; Goat: 100%; Guinea Pig: 100%; Horse: 93%; Human: 100%; Mouse: 93%; Rabbit: 100%; Rat: 100%; Sheep: 100%; Zebrafish: 86%
Image 1	 A schematic diagram of an antibody molecule, represented as a Y-shape. It consists of two heavy chains (the inner vertical lines) and two light chains (the outer diagonal lines), all connected at their base. The two upper arms of the Y represent the antigen-binding sites.

AVIVA SYSTEMS BIOLOGY manufactures and sells quality antibody products covering genome wide proteins.

This product is for Research Use Only. Not for diagnostic, human, or veterinary use.
Optimal conditions of its use should be determined by end users.

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