

Product datasheet

info@arigobio.com

ARG44586 anti-SOD2 antibody

Package: 20 μl Store at: -20°C

Summary

Product Description Rabbit Monoclonal antibody recognizes SOD2

Tested Reactivity Hu, Rat

Predict Reactivity Ms

Tested Application WB

Host Rabbit

Clonality Monoclonal

Isotype IgG

Target Name SOD2

Species Human

Immunogen Synthetic peptide corresponding to internal region of human SOD2.

Conjugation Un-conjugated

Alternate Names SOD2; Superoxide Dismutase 2; GClnc1; MnSOD; IPOB; GC1; Superoxide Dismutase [Mn], Mitochondrial

; Superoxide Dismutase 2, Mitochondrial; EC 1.15.1.1; Epididymis Secretory Sperm Binding Protein; Manganese-Containing Superoxide Dismutase; Gastric Cancer–Associated LncRNA 1; Gastric Cancer–Associated LncRNA 1; Manganese Superoxide Dismutase; Mangano-Superoxide Dismutase; Mn

Superoxide Dismutase; Indophenoloxidase B; Mn-SOD; IPO-B; MVCD6

Application Instructions

Application table	Application	Dilution
	WB	1:500-1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Affinity Purified

Buffer PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

eze/thaw cycles. Suggest spill the vial prior to opening. The antibody st

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol SOD2

Gene Full Name Superoxide Dismutase 2

Background 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. [provided by

RefSeq, Apr 2016]

Function Destroys superoxide anion radicals which are normally produced within the cells and which are toxic to

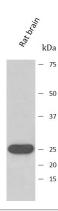
biological systems. [UniProt]

Calculated Mw 25 kDa

PTM Acetylation, Nitration, Ubl conjugation. [UniProt]

Cellular Localization Mitochondrion. [UniProt]

Images



ARG44586 anti-SOD2 antibody WB image

Western blot: Rat brain stained with ARG44586 anti-SOD2 antibody.