ARG44586
anti-SOD2 antibody

Package: 100 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.

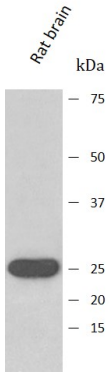
Properties

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 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.