

ARG44586 anti-SOD2 antibody

Package: 20 µl
Store at: -20°C

Summary

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|---------------------|--|
| 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; GCInc1; 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

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| 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

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|-----------------------|---|
| 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.