

# Rabbit anti-Human, Rat Superoxide Dismutase 1 Monoclonal Antibody | anti-SOD1 antibody

Recombinant Superoxide Dismutase 1 Monoclonal Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                       |
|-----------|--------|------------|------------------------------------|
| AAA178881 | Rabbit | Human, Rat | Immunohistochemistry, Western Blot |

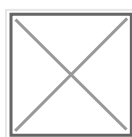
## PRODUCT SYNONYMS

Superoxide Dismutase 1; Monoclonal Antibody; Recombinant Superoxide Dismutase 1 Monoclonal Antibody; ALS; ALS1; Amyotrophic lateral sclerosis adult; Cu/Zn SOD; Cu/Zn superoxide dismutase; Epididymis secretory protein Li 44; HEL S 44; Homodimer; hSod1; Indophenoloxidase A; IPOA; Mn superoxide dismutase; SOD; SOD soluble; SOD1; SOD2; SODC; Superoxide dismutase [Cu-Zn]; Superoxide dismutase 1; Superoxide dismutase 1 soluble; Superoxide dismutase Cu Zn; Superoxide dismutase cystolic; anti-SOD1 antibody

## PRODUCT SPECIFICATIONS

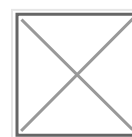
|                                                |                                                                                                      |
|------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                               |
| Reactivity                                     | Human, Rat                                                                                           |
| Clonality                                      | Monoclonal                                                                                           |
| Isotype                                        | IgG                                                                                                  |
| Clone Number                                   | R08-5A5                                                                                              |
| Purity/Purification                            | Affinity Purified                                                                                    |
| Form/Format                                    | 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% protective protein |
| Concentration                                  | 300ug/mL (varies by lot)                                                                             |
| Applicable Applications for anti-SOD1 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                        |
| Immunogen                                      | A synthetic peptide of human Superoxide Dismutase 1                                                  |
| Research Area                                  | Cancer, Cell Biology, Metabolism, Signal Transduction                                                |
| Preparation and Storage                        | Storage: -20 degree C/One year. Avoid freeze/thaw cycles.                                            |

## IMAGES



### IHC (Immunohistochemistry)

Immunohistochemical of Superoxide Dismutase 1 in Human breast cancer tissue using Superoxide Dismutase 1 antibody at dilution 1:50



### WB (Western Blot)

Western blot detection of Superoxide Dismutase 1 in A549, HL-60, C6 using Superoxide Dismutase 1 Rabbit mAb(1:1000 diluted)

## ADDITIONAL INFORMATION

### Related Product Information for anti-SOD1 antibody

The protein encoded by this gene binds copper and zinc ions and is one of two isozymes responsible for destroying free superoxide radicals in the body. The encoded isozyme is soluble cytoplasmic protein, acting as a homodimer to convert naturally-occurring but harmful superoxide radicals to molecular oxygen and hydrogen peroxide. The other isozyme is mitochondrial protein. Mutations in this gene have been implicated as causes of familial amyotrophic lateral sclerosis. Rare transcript variants have been reported for this gene.

Product Categories/Family for anti-SOD1 antibody

Antibodies; Primary Antibodies; Recombinant Antibody

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                               |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 134611                                                                                                                                                                                        |
| NCBI GeneID                      | 6647                                                                                                                                                                                          |
| UniProt Accession #              | P00441; Q16669; Q16711; Q16838; Q16839; Q16840; Q6NR85; A6NHJ0; D3DSE4                                                                                                                        |
| Molecular Weight                 | 154                                                                                                                                                                                           |
| NCBI Official Full Name          | Superoxide dismutase                                                                                                                                                                          |
| NCBI Official Synonym Full Names | superoxide dismutase 1, soluble                                                                                                                                                               |
| NCBI Official Symbol             | SOD1                                                                                                                                                                                          |
| NCBI Official Synonym Symbols    | ALS; SOD; ALS1; IPOA; hSod1; HEL-S-44; homodimer                                                                                                                                              |
| NCBI Protein Information         | superoxide dismutase [Cu-Zn]; superoxide dismutase [Cu-Zn]; SOD, soluble; indophenoloxidase A; Cu/Zn superoxide dismutase; superoxide dismutase, cystolic; epididymis secretory protein Li 44 |
| UniProt Protein Name             | Superoxide dismutase [Cu-Zn]                                                                                                                                                                  |
| UniProt Gene Name                | <b>SOD1</b>                                                                                                                                                                                   |
| UniProt Synonym Gene Names       | hSod1                                                                                                                                                                                         |
| UniProt Entry Name               | SODC_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/monoclonal/superoxide-dismutase-1-antibody-clone-r08-5a5-immunohistochemistry-western-blot-elisa/178881>