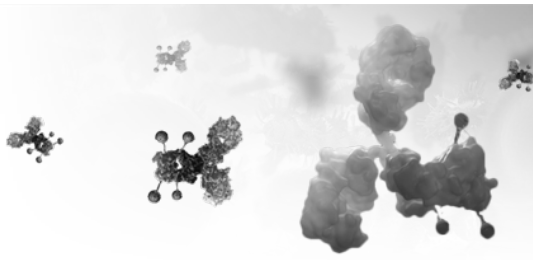

# Anti-SOD1 polyclonal antibody (DPABY-730)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

| | |
|---|---|
| **Antigen Description** | 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 a soluble cytoplasmic protein, acting as a homodimer to convert naturally-occuring but harmful superoxide radicals to molecular oxygen and hydrogen peroxide. The other isozyme is a 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. [provided by RefSeq] |
| **Immunogen** | Recombinant fragment corresponding to a region within amino acids 1 and 154 of SOD1 (Uniprot ID#P00441) |
| **Isotype** | IgG |
| **Source/Host** | Rabbit |
| **Species Reactivity** | Human |
| **Purification** | Purified by antigen-affinity chromatography. |
| **Conjugate** | Unconjugated |
| **Applications** | ELISA Pr*, IHC, WB |
| **Molecular Weight** | 16 kDa |
| **Cellular Localization** | Cytoplasm |
| **Positive Control** | A549, HeLa, HepG2, HCT116, mouse brain, Rat brain, *F79, *F123 |
| **Format** | Liquid |
| **Concentration** | 0.29 mg/ml |

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| | |
|---|---|
| **Size** | 25 µl |
| **Buffer** | 1XPBS, 1%BSA, 20% Glycerol (pH7). 0.01% Thimerosal was added as a preservative. |
| **Preservative** | None |
| **Storage** | Keep as concentrated solution. Aliquot and store at -38℃ or below. Avoid multiple freeze-thaw cycles. |

# GENE INFORMATION

| | |
|---|---|
| **Gene Name** | SOD1 superoxide dismutase 1, soluble [ Homo sapiens (human) ] |
| **Official Symbol** | SOD1 |
| **Synonyms** | SOD1; superoxide dismutase 1, soluble; ALS; SOD; ALS1; IPOA; hSod1; HEL-S-44; homodimer; superoxide dismutase [Cu-Zn]; SOD, soluble; indophenoloxidase A; Cu/Zn superoxide dismutase; superoxide dismutase, cystolic; epididymis secretory protein Li 44; |
| **Entrez Gene ID** | 6647 |
| **Protein Refseq** | NP_000445 |
| **UniProt ID** | P00441 |
| **Chromosome Location** | 21q22.11 |
| **Pathway** | AGE/RAGE pathway; Amyotrophic lateral sclerosis (ALS); Cellular responses to stress; Detoxification of Reactive Oxygen Species; Dopamine metabolism; FOXA1 transcription factor network; Folate Metabolism; Hemostasis; |
| **Function** | Rac GTPase binding; chaperone binding; copper ion binding; identical protein binding; protein binding; protein homodimerization activity; protein phosphatase 2B binding; superoxide dismutase activity; zinc ion binding; |

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