

Datasheet for ABIN190907

anti-SOD1 antibody (Internal Region)

3 Images

1 Publication

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Overview

| | |
|----------------------|---|
| Quantity: | 100 µg |
| Target: | SOD1 |
| Binding Specificity: | Internal Region |
| Reactivity: | Human, Mouse |
| Host: | Goat |
| Clonality: | Polyclonal |
| Conjugate: | This SOD1 antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunofluorescence (IF) |

Product Details

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|-------------------|---|
| Purpose: | SOD1 |
| Immunogen: | Peptide with sequence C-SRKHGGPKDEERH, from the internal region of the protein sequence according to NP_000445.1. |
| Sequence: | SRKHGGPKDE ERH |
| Isotype: | IgG |
| Cross-Reactivity: | Dog, Human, Mouse, Rat |
| Purification: | Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide. |
| Grade: | Verified |

Target Details

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| Target: | SOD1 |
| Alternative Name: | SOD1 (SOD1 Products) |
| Background: | SOD1, superoxide dismutase 1, soluble (amyotrophic lateral sclerosis 1 (adult)) , HGNC:11179, ALS, ALS1, IPOA, SOD , Cu /Zn superoxide dismutase, Cu/Zn superoxide dismutase, SOD, soluble, indophenoloxidase A, superoxide dismutase (aa 120-154), superoxide |
| Gene ID: | 6647, 20655, 24786 |
| NCBI Accession: | NP_000445 |
| Pathways: | Sensory Perception of Sound , Transition Metal Ion Homeostasis |

Application Details

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|--------------------|--|
| Application Notes: | Western Blot: Approx 18 kDa band observed in Mouse Brain and Rat Spinal Cord lysates, and in lysates of cell line NIH3T3. Approx 20 kDa observed in lysates of cell lines HEK293, HepG2 and MCF7 (calculated MW of 15.9 kDa according to Human NP_000445.1, Mous Peptide ELISA: antibody detection limit dilution 1:8000. |
| Comment: | Immunofluorescence: Strong expression of the protein seen in the nucleus and cytoplasm of U2OS cells and the cytoplasm of A431 cells. Recommended concentration: 10µg/ml. Additional validation: This antibody has been |
| Restrictions: | For Research Use only |

Handling

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|--------------------|--|
| Format: | Liquid |
| Concentration: | 0.5 mg/mL |
| Buffer: | Supplied at 0.5 mg/mL in Tris saline, 0.02 % sodium azide, pH 7.3 with 0.5 % bovine serum albumin. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Minimize freezing and thawing. |
| Storage: | -20 °C |
| Storage Comment: | Aliquot and store at -20°C, with minimal freeze/thawing. A working aliquot may be refrigerated |

at 4°C for a few weeks and still remain viable.

Publications

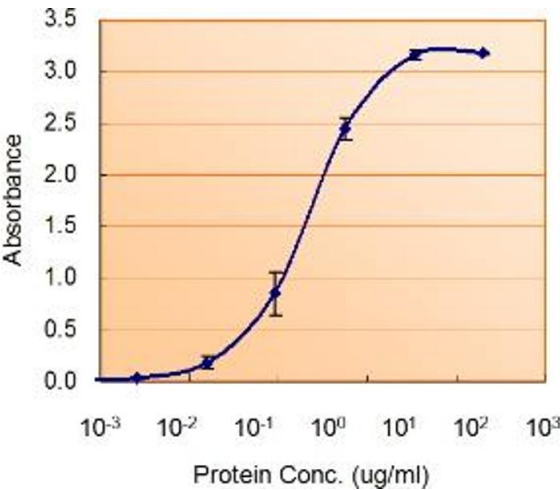
Product cited in: Frazziano, Al Ghoulleh, Baust, Shiva, Champion, Pagano: "Nox-derived ROS are acutely activated in pressure overload pulmonary hypertension: indications for a seminal role for mitochondrial Nox4." in: **American journal of physiology. Heart and circulatory physiology**, Vol. 306, Issue 2, pp. H197-205, (2014) ([PubMed](#)).

Images



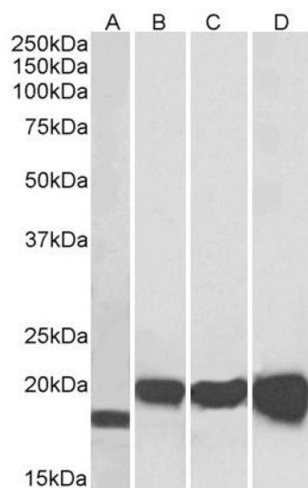
Western Blotting

Image 1. ABIN190907 (0.02µg/ml) staining of Mouse Brain lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



Enzyme Immunoassay

Image 2. ABIN190907 (1.5ug/ml) as the reporter with EB002010 as the capture rabbit antibody (5ug/ml).



Western Blotting

Image 3. ABIN190907 (0.01µg/ml) staining of NIH3T3 (A), HEK293 (B), HepG2 (C) and MCF7 (D) lysates (35µg protein in RIPA buffer). Detected by chemiluminescence.