BioVision 07/13 For research use only

Superoxide Dismutase 2 (2A1) Monoclonal Antibody

ALTERNATE NAMES: Superoxide dismutase, mitochondrial, IPOB, MNSOD, MVCD6.

CATALOG #: 6169-100

AMOUNT: 100 μl

HOST: Mouse

ISOTYPE: lgG1

IMMUNOGEN: Recombinant human protein purified from E.coli

PURIFICATION: Protein G purified

FORM: Liquid

FORMULATION: 100 µl of antibody in HEPES with 0.15 M NaCl, 0.01 % BSA,

0.03 % sodium azide, and 50 % glycerol

SPECIES REACTIVITY: Human, mouse, rat

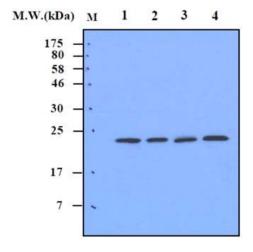
STORAGE CONDITIONS: Store for 1 year at -20°C from date of shipment. Avoid repeated

freeze/thaw cycles.

DESCRIPTION: Superoxide dismutase (SOD) is an antioxidant enzyme involved in the defense system against reactive oxygen species (ROS). SOD catalyzes the dismutation reaction of superoxide radical anion (O2-) to hydrogen peroxide, which is then catalyzed to innocuous O2 and H2O by glutathione peroxidase and catalase. Several classes of SOD have been identified. These include intracellular copper, zinc SOD (Cu, Zn-SOD/SOD-1), mitochondrial manganese SOD (Mn-SOD/SOD-2) and extracellular Cu, Zn-SOD (EC-SOD/SOD-3). SOD1 is found in all eukaryotic species as a homodimeric 32 kDa enzyme containing one each of Cu and Zn ion per subunit. The manganese containing 80 kDa tetrameric enzyme SOD2, is located in the mitochondrial matrix in close proximity to a primary endogenous source of superoxide, the mitochondrial respiratory chain. SOD3 is a heparin-binding multimer of disulfide-linked dimers, primarily expressed in human lungs, vessel walls and airways. SOD4 is a copper chaperone for superoxide dismutase (CCS), which specifically delivers Cu to copper/zinc superoxide dismutase. CCS may activate copper/zinc superoxide dismutase through direct insertion of the Cu cofactor. SOD2 destroys radicals which are normally produced within the cells and which are toxic to biological systems.

APPLICATION: Western blot: 1 µg/ml.

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user



WB analysis of lysates.

Lane 1: HeLa cells, Lane 2: HepG2 cells.

Lane 3: Mouse brain tissue. Lane 4: Rat Brain tissue.

RELATED PRODUCTS:

- Superoxide Dismutase 1 (72B1) Monoclonal Antibody (Cat. No. 6168-100)
- Superoxide Dismutase 3 (1H12) Monoclonal Antibody (Cat. No. 6170-100)
- Superoxide Dismutase 4 (3A1) Monoclonal Antibody (Cat. No. 6171-100)
- Superoxide Dismutase (SOD) Activity Assay Kit (Cat. No. K335-100)
- Superoxide Dismutase, human recombinant (Cat. No. 4802-50)
- SOD2, human recombinant (Cat. No. 6360-100)
- Bacterial Recombinant SODA (Cat. No. 6361-100)
- SOD1 Antibody (Cat. No. 3458-100)
- SOD1 Blocking Peptide (Cat. No. 3458BP-50)

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