Mouse anti-Misfolded Human SOD1 (B8H10), #MM-0070

DATASHEET

Product name: Misfolded Human SOD1 antibody

Background information: Superoxide dismutase 1 (SOD1) is a soluble cytoplasmic and mitochondrial intermembrane space protein. SOD1 binds copper and zinc ions and is one of three isozymes responsible for destroying free superoxide radicals in the body. Mutations in SOD1 cause familial amyotrophic lateral sclerosis type 1 (ALS1). These mutations have been linked to accumulation of harmful superoxide radicals, promotion of apoptosis, formation of aggregates of misfolded superoxide dismutase which are toxic and the continued stimulation of nerve cells that causes them to burn out and die.

Product Description: This antibody was raised against the recombinant G93A human SOD1 mutant protein.


Species: Mouse

Clonality: Monoclonal

Isotype: IgG1

Reactivity / specificity: The antibody recognizes the misfolded forms of mutant human SOD1 protein. Specific for: Human, no cross-reactivity with mouse SOD1. Other species not tested.

Applications: Western Blot (WB), Immunoprecipitation (IP), Immunohistochemistry (IHC), Immunofluorescence (IF)

Recommended starting dilutions: If reconstituted in 200 µl: IF 1:50 to 1:500; WB 1:250; IP 6 µl / 40 µl Protein G beads / 300 µg of protein lysate. Optimal dilution has to be determined by the user.

Storage: Lyophilized antibody can be kept at 4°C for up to 3 months and should be kept at -20°C for long-term storage. To avoid freeze-thaw cycles, reconstituted antibody should be aliquoted before freezing for short-term storage (-20°C) or for long-term storage (-80°C).

Stability: Minimum 1 year from reception date.

References:


Limitations: This product is to be used for in vitro research purposes only.