

SOD2 monoclonal antibody

Catalog: MB22234

Host: Mouse

Reactivity: Human

Background:

This gene is a member of the iron/manganese superoxide dismutase family. It encodes a mitochondrial protein that forms a homotetramer and binds one manganese ion per subunit. This protein binds to the superoxide byproducts of oxidative phosphorylation and converts them to hydrogen peroxide and diatomic oxygen. Mutations in this gene have been associated with idiopathic cardiomyopathy (IDC), premature aging, sporadic motor neuron disease, and cancer. Alternative splicing of this gene results in multiple transcript variants. A related pseudogene has been identified on chromosome 1.

Product:

Purified antibody in PBS with 0.05% sodium azide

Molecular Weight:

24.7kDa

Swiss-Prot:

P04179

Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB:1/500 - 1/2000 IHC:1/200 - 1/1000 FC:1/200 - 1/400

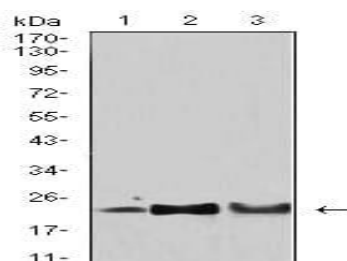
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

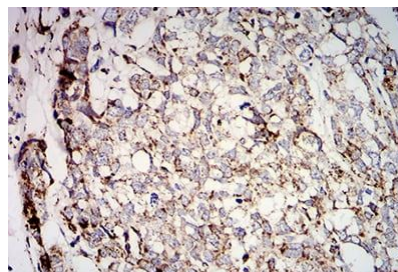
Isotype:

Mouse IgG1

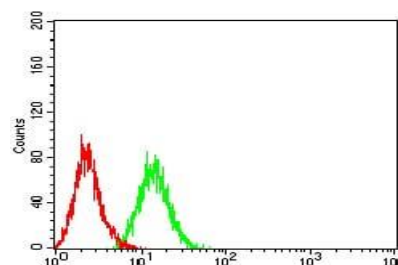
DATA:



Western blot analysis using SOD2 mouse mAb against HeLa (1), HepG2 (2), and SH-SY5Y (3) cell lysate.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissues using SOD2 mouse mAb with DAB staining.



Flow cytometric analysis of MCF-7 cells using SOD2 mouse mAb (green) and negative control (red).

Note:

For research use only, not for use in diagnostic procedure.

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