

Basic Information

Product Name	Anti-SOD2 Antibody (Clone#IDO-19)
Gene Name	SOD2
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human SOD2
Concentration	500ug/ml
Purification	Affinity-chromatography
Observed MW	25 kDa
Dilution Ratios	Western blot (WB): 1:1000-5000 Immunohistochemistry (IHC):1:50-200

Storage

12 months from date of receipt, -20°C as supplied.

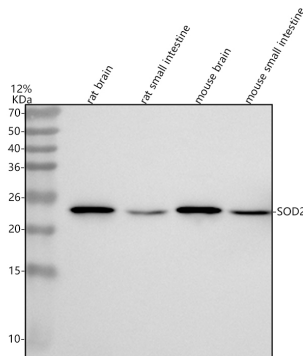
Background Information

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.

Reference

Anti-SOD2 Antibody (Clone#IDO-19)被引用在8文献中。

Selected Validation Data



Western blot analysis of anti-SOD2 antibody (BM4813). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

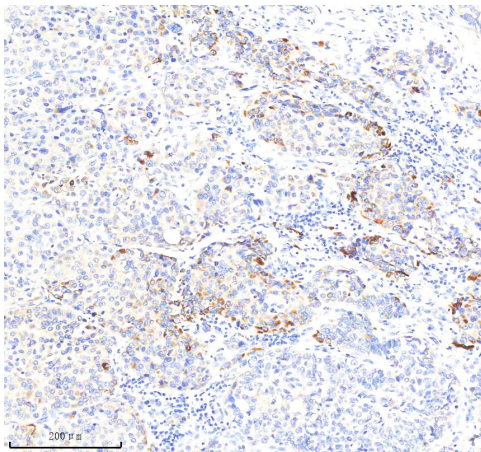
Lane 1: rat brain tissue lysates,

Lane 2: rat small intestine tissue lysates,

Lane 3: mouse brain tissue lysates,

Lane 4: mouse small intestine tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-SOD2 antigen affinity purified monoclonal antibody (BM4813) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for SOD2 at approximately 25 kDa. The expected band size for SOD2 is at 25 kDa.



IHC analysis of SOD2 using anti-SOD2 antibody (BM4813) .

SOD2 was detected in a paraffin-embedded section of human liver cancer tissue. The tissue section was incubated with rabbit anti-SOD2 Antibody (BM4813) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.