Anti-SOD1 Antibody (Clone#OTI8B10)

Catalog Number: *M00238-1*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-SOD1 Antibody (Clone#OTI8B10)
Gene Name	SOD1
Source	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, FCM
Contents	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Immunogen	Full length human recombinant protein of human SOD1 (NP_000445) produced in HEK293T cell.
Concentration	500 ug/ml
Purification	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Observed MW	16-18 kDa
Dilution Ratios	Western blot (WB): 1:1000~2000 Immunohistochemistry (IHC):1:50 Flow cytometry (FCM): 1:100

Storage

Stable for 12 months from date of receipt. Store at -20°C as received.

Background Information

The protein encoded by this gene binds copper and zinc ions and is one of two isozymes responsible for destroying free superoxide radicals in the body. The encoded isozyme is a soluble cytoplasmic protein, acting as a homodimer to convert naturally-occuring but harmful superoxide radicals to molecular oxygen and hydrogen peroxide. The other isozyme is a mitochondrial protein. Mutations in this gene have been implicated as causes of familial amyotrophic lateral sclerosis. Rare transcript variants have been reported for this gene. [provided by RefSeq]

Selected Validation Data

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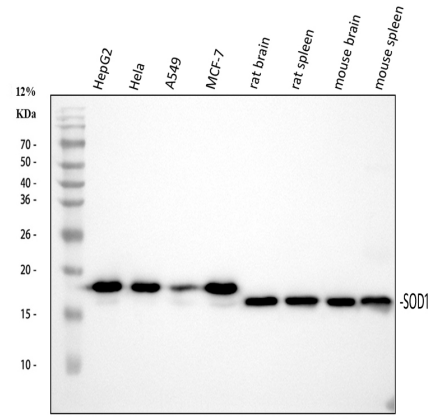
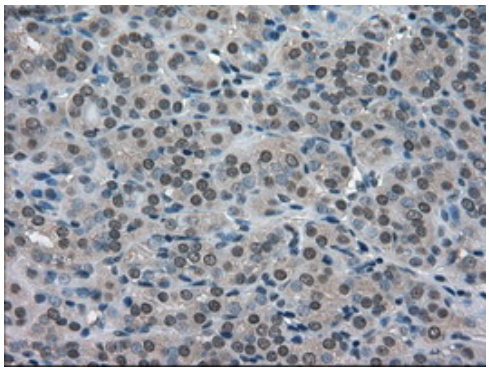
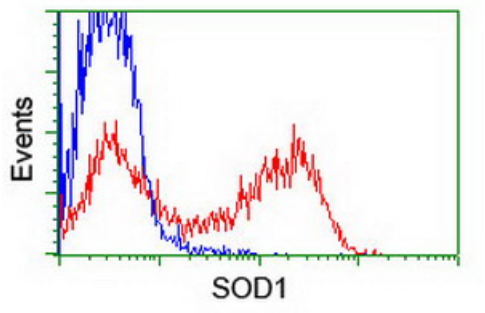


Western blot analysis of anti-SOD1 antibody (M00238-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HepG2 whole cell lysates,
Lane 2: human Hela whole cell lysates,
Lane 3: human A549 whole cell lysates,
Lane 4: human MCF-7 whole cell lysates,
Lane 5: rat brain tissue lysates,
Lane 6: rat spleen tissue lysates,
Lane 7: mouse brain tissue lysates,
Lane 8: mouse spleen tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-SOD1 antigen affinity purified monoclonal antibody (M00238-1) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for SOD1 at approximately 16-18 kDa. The expected band size for SOD1 is at 16 kDa.



Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-SOD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, M00238-1)



HEK293T cells transfected with either overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-SOD1 antibody, and then analyzed by flow cytometry.

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