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Anti-Superoxide Dismutase 1 (SOD1) Mouse Monoclonal Antibody [Clone ID: OTI8B10]

Catalog Number: M00238-1

Overview

Product Name	Anti-Superoxide Dismutase 1 (SOD1) Mouse Monoclonal Antibody [Clone ID: OTI8B10]
Reactive Species	Human
Description	Boster Bio SOD1 (Superoxide Dismutase 1) mouse monoclonal antibody, clone OTI8B10 (formerly 8B10). Catalog# M00238-1. Tested in FC, IHC, WB. This antibody reacts with Human.
Conjugate	Unconjugated
Application	Flow Cytometry, IHC, WB
Clonality	Monoclonal OTI8B10
Formulation	PBS (pH 7.3) containing 1% stabilizing protein, 50% glycerol and 0.02% sodium azide. This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	P00441

Technical Details

Immunogen	Full length human recombinant protein of human SOD1 (NP_000445) produced in HEK293T cell.
Isotype	IgG2b
Concentration	1 mg/ml
Purification	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Suggested Dilutions	WB: 1:1000~2000 IHC: 1:50 Flow cytometry: 1:100

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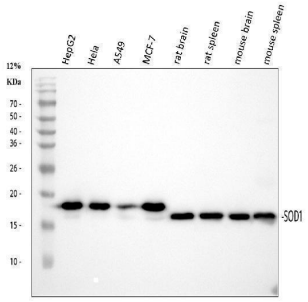
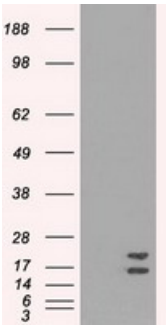
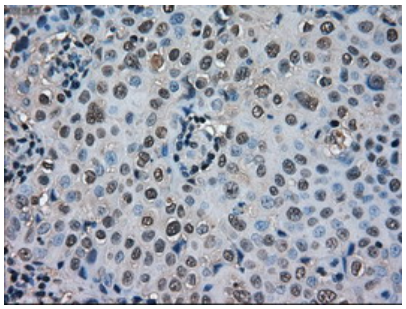
Anti-Superoxide Dismutase 1 (SOD1) Mouse Monoclonal Antibody [Clone ID: OTI8B10] (M00238-1) Images



Western blot analysis of SOD1 using anti-SOD1 antibody (M00238-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. 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 nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-SOD1 antigen affinity purified monoclonal antibody (Catalog # M00238-1) at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for SOD1 at approximately 16-18 kDa. The expected band size for SOD1 is at 16 kDa.



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SOD1 (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SOD1.



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-SOD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer

Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-SOD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer

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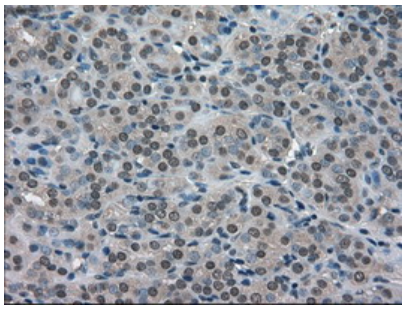
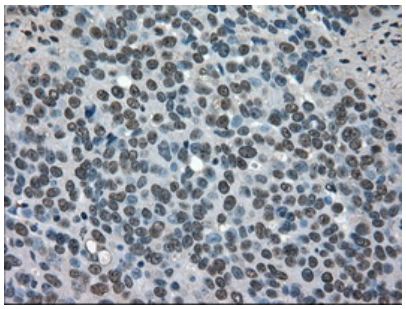
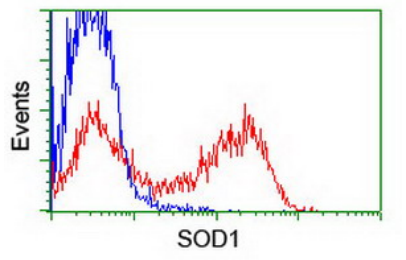




Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-SOD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer



HEK293T cells transfected with either SOD1 (Myc-DDK-tagged) overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-SOD1 antibody (M00238-1)

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