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Product datasheet for TA500495M

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI8B10
Applications:	FC, IHC, WB
Recommended Dilution:	WB 1:1000~2000, IHC 1:50, FLOW 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human SOD1 (NP_000445) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	15.8 kDa
Gene Name:	superoxide dismutase 1
Database Link:	NP_000445 Entrez Gene 6647 Human P00441

View online »

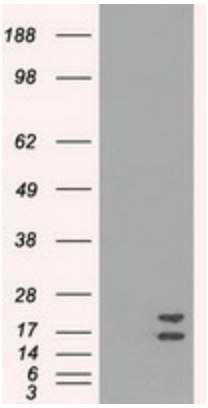
Background: The protein encoded by this gene binds copper and zinc ions and is one of two isozymes responsible for destroying free superoxide radicals in the body. The encoded isozyme is a soluble cytoplasmic protein, acting as a homodimer to convert naturally-occuring but harmful superoxide radicals 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]

Synonyms: ALS; ALS1; HEL-S-44; homodimer; hSod1; IPOA; SOD

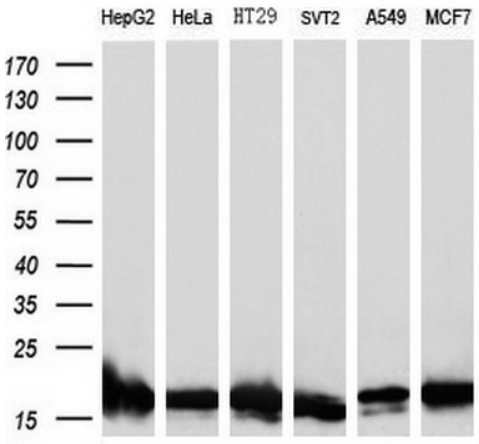
Protein Families: Druggable Genome

Protein Pathways: Amyotrophic lateral sclerosis (ALS), Huntington's disease, Prion diseases

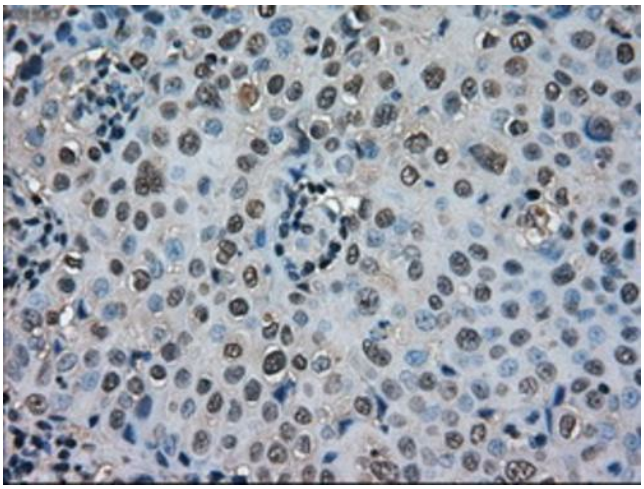
Product images:



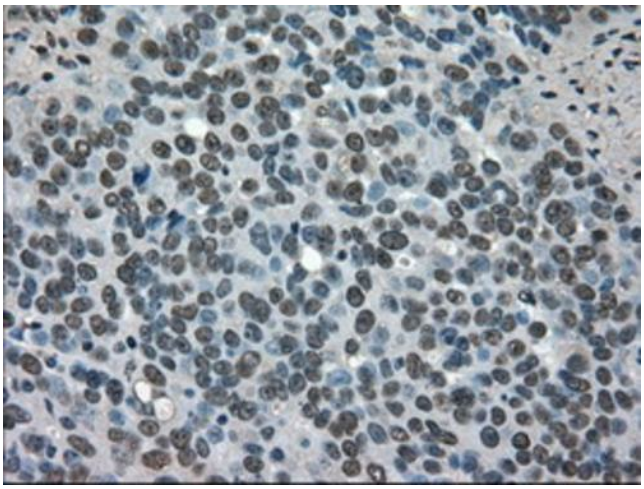
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SOD1 (Cat# [RC200725], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SOD1 (Cat# [TA500495]). Positive lysates [LY400160] (100ug) and [LC400160] (20ug) can be purchased separately from OriGene.



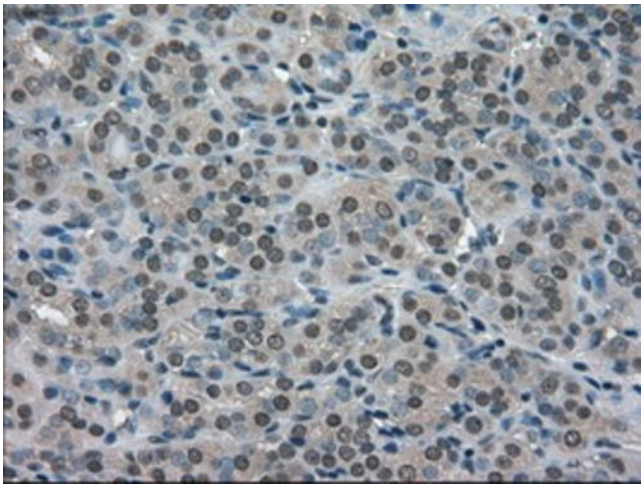
Western blot analysis of extracts (35ug) from 6 different cell lines by using anti-SOD1 monoclonal antibody (HepG2: human; HeLa: human; HT29: human; SVT2: mouse; A549: human; MCF7: human).



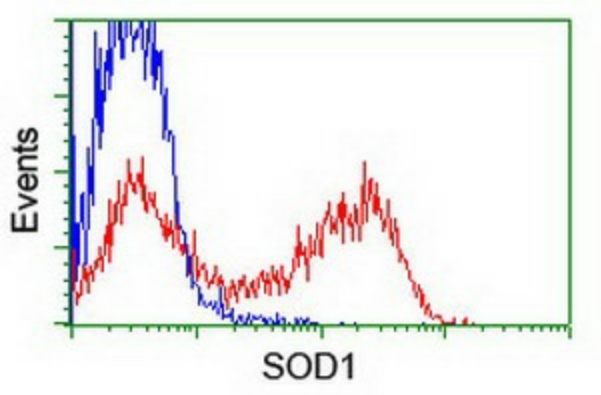
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-SOD1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-SOD1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-SOD1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



HEK293T cells transfected with either [RC200725] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-SOD1 antibody ([TA500495]), and then analyzed by flow cytometry.