

Product datasheet for **CF501887**

SOD2 Mouse Monoclonal Antibody [Clone ID: OT11H6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OT11H6
Applications:	WB
Recommended Dilution:	WB 1:500~2000
Reactivity:	Human, Dog, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human SOD2 (NP_000627) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
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:	22.2 kDa
Gene Name:	superoxide dismutase 2
Database Link:	NP_000627 Entrez Gene 20656 Mouse Entrez Gene 24787 Rat Entrez Gene 476258 Dog Entrez Gene 6648 Human P04179



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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. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq]

Synonyms:

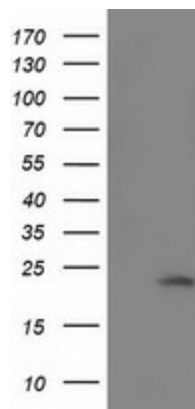
IPOB; MNSOD; MVCD6

Protein Families:

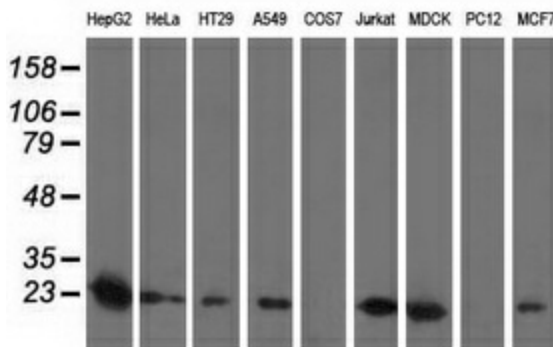
Druggable Genome, Transcription Factors

Protein Pathways:

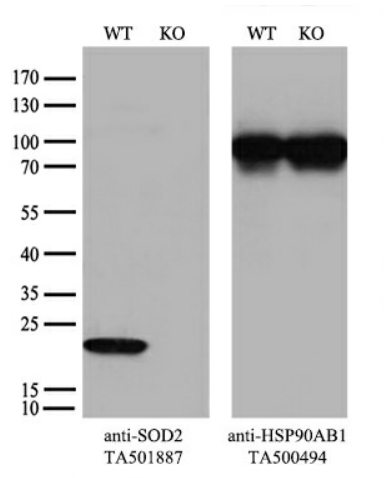
Huntington's disease

Product images:


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SOD2 (Cat# [RC202330], 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-SOD2 (Cat# [TA501887]). Positive lysates [LY400235] (100ug) and [LC400235] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-SOD2 monoclonal antibody.



Equivalent amounts of cell lysates (10 ug per lane) of wild-type HEK293T cells (WT, Cat# LC810293T) and SOD2-Knockout HEK293T cells (KO, Cat# [LC840161]) were separated by SDS-PAGE and immunoblotted with anti-SOD2 monoclonal antibody [TA501887] (1:500). Then the blotted membrane was stripped and reprobed with anti-HSP90 antibody as a loading control.