

Human SOD2 Knockdown Cell Lysate

Cat. No. SOD2-432HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated SOD2 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	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.
Form	Cell-Tissue Lysis buffer
Molecular Mass	25 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
Storage	Store at -20 centigrade for two years.

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Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg SOD2 KD HeLa cell lysate
Protein Families	Druggable Genome, Transcription Factors
Protein Pathways	Huntington's disease
Lysate QC	RT-qPCR; Western Blotting (WB)
GENE INFORMATION	
Gene Name	SOD2 superoxide dismutase 2, mitochondrial [Homo sapiens (human)]
Official Symbol	SOD2
Synonyms	SOD2; superoxide dismutase 2, mitochondrial; superoxide dismutase [Mn], mitochondrial; indophenoloxidase B; Mn superoxide dismutase; mangano-superoxide dismutase; manganese-containing superoxide dismutase; IPOB; MNSOD; MVCD6;
Gene ID	6648
mRNA Refseq	NM_000636
Protein Refseq	NP_000627
MIM	147460
UniProt ID	P04179

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