

NDUFS7 monoclonal antibody (M01), clone 3A3

Catalog # H00374291-M01

Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant NDUFS7.
Immunogen	NDUFS7 (NP_077718, 114 a.a. ~ 213 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	PRQSDVMIVAGTLTNKMAPALRKVYDQMPEPRYVVSMSGSCANGGGYYHYSYSVVRGCDRMPVD MPGCPPTAEALLYGILQLQRKIKRERRLQIWYRR
Host	Mouse
Reactivity	Human
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- ELISA

Gene Info — NDUFS7

Entrez GeneID	374291
GeneBank Accession#	NM_024407
Protein Accession#	NP_077718
Gene Name	NDUFS7

Gene Alias	CI-20KD, FLJ45860, FLJ46880, MGC120002, MY017, PSST
Gene Description	NADH dehydrogenase (ubiquinone) Fe-S protein 7, 20kDa (NADH-coenzyme Q reductase)
Omim ID	256000 601825
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a protein that is a subunit of one of the complexes that forms the mitochondrial respiratory chain. This protein is one of over 40 subunits found in complex I, the nicotinamide adenine dinucleotide (NADH):ubiquinone oxidoreductase. This complex functions in the transfer of electrons from NADH to the respiratory chain, and ubiquinone is believed to be the immediate electron acceptor for the enzyme. Mutations in this gene cause Leigh syndrome due to mitochondrial complex I deficiency, a severe neurological disorder that results in bilaterally symmetrical necrotic lesions in subcortical brain regions. [provided by RefSeq]
Other Designations	NADH dehydrogenase [ubiquinone] iron-sulfur protein 7, mitochondrial NADH-coenzyme Q reductase NADH-ubiquinone oxidoreductase Fe-S protein 7 NADH:ubiquinone oxidoreductase PSST subunit complex I, mitochondrial respiratory chain, 20-KD subunit complex I-20

Publication Reference

- [Mitochondrial complex I activity and oxidative damage to mitochondrial proteins in the prefrontal cortex of patients with bipolar disorder.](#)

Ana C Andreazza, Li Shao, Jun-Feng Wang, L Trevor Young.

Archives of General Psychiatry 2010 Apr; 67(4):360.

Application: WB-Ti, Human, Human postmortem prefrontal cortex

Pathway

- [Metabolic pathways](#)
- [Oxidative phosphorylation](#)

Disease

- [Alzheimer disease](#)
- [Cognition](#)