

Product datasheet for **TP303138L**

PDHX (NM_003477) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human pyruvate dehydrogenase complex, component X (PDHX), nuclear gene encoding mitochondrial protein, transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC203138 protein sequence Red =Cloning site Green =Tags(s)

MAASWRLGCDPRLRLRYLVGFPGRRSVGLVKGALGWSVSRGANWRWFHSTQWLRGDPIKILMPSLSPTMEE
GNIVKWLKKEGEAVSAGDALCEIETDKAVVTLASDDGILAKIVVEEGSKNIRLGLIGLIVEEGEDWKH
VEIPKDVGPPPPVSKPSEPRPSPEPQISIPVKEHIPGTLRFRLSPAARNILEKHSLDASQGTATGPRGI
FTKEDALKLVQLKQTGKITESRTPAPTATPTAPSPLQATAGPSYPRVIPPVSTPGQPNAVGTTFTEIPA
SNIRRVIAKRLTESKSTVPHAYATADCDLGAVLKVRQDLVKDDIKVSVNDFIIKAAAVTLKQMPDVNVSW
DGEGPKQLPFIDISVAVATVKGLLTPIIKDAAAKGIQEIADSVKALSCKKARDGKLLPEEYQGGSFISNL
GMFGIDEFTAVINPPQACILAVGRFRPVLKLTDEEENAKLQQRQLITVMTSSDSRVVDELATRFLKSF
KANLENPIRLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

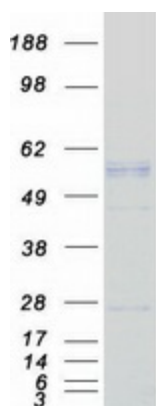
Tag:	C-Myc/DDK
Predicted MW:	53.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_003468
Locus ID:	8050
UniProt ID:	O00330
RefSeq Size:	2991
Cytogenetics:	11p13
RefSeq ORF:	1503
Synonyms:	DLDBP; E3BP; OPDX; PDHXD; PDX1; proX
Summary:	<p>The pyruvate dehydrogenase (PDH) complex is located in the mitochondrial matrix and catalyzes the conversion of pyruvate to acetyl coenzyme A. The PDH complex thereby links glycolysis to Krebs cycle. The PDH complex contains three catalytic subunits, E1, E2, and E3, two regulatory subunits, E1 kinase and E1 phosphatase, and a non-catalytic subunit, E3 binding protein (E3BP). This gene encodes the E3 binding protein subunit; also known as component X of the pyruvate dehydrogenase complex. This protein tethers E3 dimers to the E2 core of the PDH complex. Defects in this gene are a cause of pyruvate dehydrogenase deficiency which results in neurological dysfunction and lactic acidosis in infancy and early childhood. This protein is also a minor antigen for antimitochondrial antibodies. These autoantibodies are present in nearly 95% of patients with the autoimmune liver disease primary biliary cirrhosis (PBC). In PBC, activated T lymphocytes attack and destroy epithelial cells in the bile duct where this protein is abnormally distributed and overexpressed. PBC eventually leads to cirrhosis and liver failure. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Oct 2009]</p>

Product images:



Coomassie blue staining of purified PDHX protein (Cat# [TP303138]). The protein was produced from HEK293T cells transfected with PDHX cDNA clone (Cat# [RC203138]) using MegaTran 2.0 (Cat# [TT210002]).