

## Product datasheet for **TP303138**

### 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, 20 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC203138 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MAASWRLGCDPRLRLRYLVGFPGRRSVGLVKGALGWSVSRGANWRWFHSTQWLRGDPIKILMPSLSPTEEM  
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.

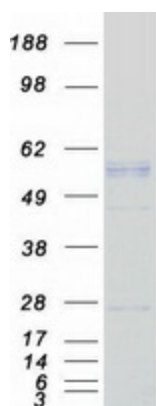
**Storage:** Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_003468</a>
<b>Locus ID:</b>	8050
<b>UniProt ID:</b>	<a href="#">O00330</a>
<b>RefSeq Size:</b>	2991
<b>Cytogenetics:</b>	11p13
<b>RefSeq ORF:</b>	1503
<b>Synonyms:</b>	DLDBP; E3BP; OPDX; PDHXD; PDX1; proX
<b>Summary:</b>	<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]).