

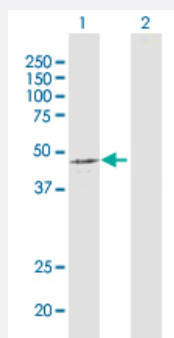
MaxPab®

PDHA1 purified MaxPab mouse polyclonal antibody (B03P)

Catalog # H00005160-B03P

Size 50 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of PDHA1 expression in transfected 293T cell line ([H00005160-T05](#)) by PDHA1 MaxPab polyclonal antibody.

Lane 1: PDHA1 transfected lysate(43.30 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description	Mouse polyclonal antibody raised against a full-length human PDHA1 protein.
Immunogen	PDHA1 (NP_000275.1, 1 a.a. ~ 390 a.a) full-length human protein.
Sequence	MRKMLAAVSRVLSGASQKPASRVLVASRNFANDATFEIKKCDLHRLEEGPPVTTVLTRDGLKYY RMMQTVRRMELKADQLYKQKIIRGFCHLCDGQEACCVGLEAGINPTDHLITAYRAHGFTFTRGLSV REILAELTGRKGGCAKKGKGGSMHMYAKNFYGGNGVGAQVPLGAGIALACKYNGKDEVCLTYGD GAANQQQIFEAYNMAALWKLPCIFICENNRYGMGTSVERAAASTDYKRGDFIPGLRVDGMDILCV REATRFAAAAYCRSGKGPILMELQTYRYHGHSMSDPGVSYRTREEIQEVRKSDPIMLLKDRMVNS NLASVEELKEIDVEVRKEIEDAAQFATADPEPPLEELGYHIYSSDPPFEVRGANQWIKFSVS
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (98); Rat (98)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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[Protocol Download](#)

Gene Info — PDHA1

Entrez GeneID [5160](#)

GeneBank Accession# [NM_000284.1](#)

Protein Accession# [NP_000275.1](#)

Gene Name PDHA1

Gene Alias PDHA, PDHCE1A, PHE1A

Gene Description pyruvate dehydrogenase (lipoamide) alpha 1

Omim ID [300502 308930 312170](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The pyruvate dehydrogenase complex is a nuclear-encoded mitochondrial matrix multienzyme complex that provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle by catalyzing the irreversible conversion of pyruvate into acetyl-CoA. The PDH complex is composed of multiple copies of 3 enzymes: E1 (PDHA1); dihydrolipoyl transacetylase (DLAT; MIM 608770) (E2; EC 2.3.1.12); and dihydrolipoyl dehydrogenase (DLD; MIM 238331) (E3; EC 1.8.1.4). The E1 enzyme is a heterotetramer of 2 alpha and 2 beta subunits. The E1-alpha subunit contains the E1 active site and plays a key role in the function of the PDH complex (Brown et al., 1994 [PubMed 7853374]).[supplied by OMIM]

Other Designations OTTHUMP00000023015|pyruvate dehydrogenase E1 alpha subunit

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Butanoate metabolism](#)
- [Citrate cycle \(TCA cycle\)](#)
- [Glycolysis / Gluconeogenesis](#)
- [Metabolic pathways](#)
- [Pyruvate metabolism](#)
- [Valine](#)