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Pyruvate Dehydrogenase E1 beta subunit Antibody

Rabbit mAb
Catalog # AP91638

Product Information

Application	WB, IHC, IF, FC, ICC, IP, IHF
Primary Accession	P11177
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	pdhB; DHBD; PDHE1 B; PDHE1-B; PHE1B;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	39233

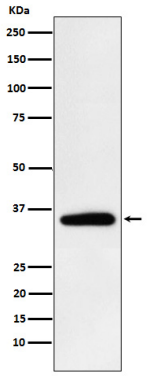
Additional Information

Dilution	WB 1:1000~1:5000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50 FC 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Pyruvate Dehydrogenase E1 beta subunit
Description	The pyruvate dehydrogenase complex catalyzes the overall conversion of pyruvate to acetyl-CoA and CO(2). It contains multiple copies of three enzymatic components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and lipoamide dehydrogenase (E3).
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	PDHB (HGNC:8808)
Synonyms	PHE1B
Function	Together with PDHA1 forms the heterotetrameric E1 subunit of the pyruvate dehydrogenase (PDH) complex (PubMed:17474719, PubMed:19081061). The PDH complex catalyzes the overall conversion of pyruvate to acetyl-CoA and CO(2), and thereby links cytoplasmic glycolysis and the mitochondrial tricarboxylic acid (TCA) cycle (Probable). It contains multiple copies of three enzymatic components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and dihydrolipoamide dehydrogenase (E3) (Probable). The E1 subunit catalyzes both the thiamine pyrophosphate (TPP)-dependent decarboxylation of pyruvate and the reductive acetylation of a lipoyl group covalently linked to the lipoyl-bearing domains of E2 (PubMed:19081061).
Cellular Location	Mitochondrion matrix {ECO:0000250|UniProtKB:P26284}

Images



Western blot analysis of Pyruvate Dehydrogenase E1 beta subunit expression in HeLa cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.