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Anti-Pyruvate Dehydrogenase E1-α subunit Antibody (3H2-F8-B5)

Mouse Monoclonal Antibody
Catalog # ABV12054

Product Information

Application	WB, IF
Primary Accession	P08559
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	3H2-F8-B5
Calculated MW	43296

Additional Information

Gene ID	5160
Application & Usage	WB: 293, 1299, mEsc and Tc1 cell lysates; IF: HeLa cells
Other Names	Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial, PDHE1-A type I, PDHA1, PHE1A
Target/Specificity	Pyruvate dehydrogenase E1 component subunit alpha
Antibody Form	Liquid
Appearance	Colorless liquid
Formulation	In buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50%,glycerol
Handling	The antibody solution should be gently mixed before use.
Reconstitution & Storage	-20 °C
Background Descriptions	
Precautions	Anti-Pyruvate Dehydrogenase E1-α subunit Antibody (3H2-F8-B5) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

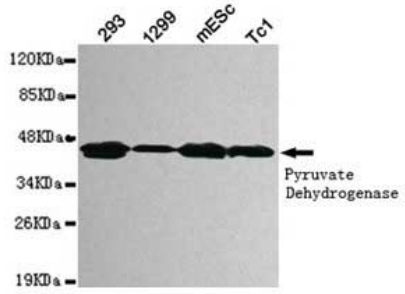
Name	PDHA1 (HGNC:8806)
Synonyms	PHE1A

Function	Together with PDHB 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 (PubMed:19081061, PubMed:7782287). 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:17474719, PubMed:19081061, PubMed:7782287).
Cellular Location	Mitochondrion matrix {ECO:0000250|UniProtKB:P26284}
Tissue Location	Ubiquitous.

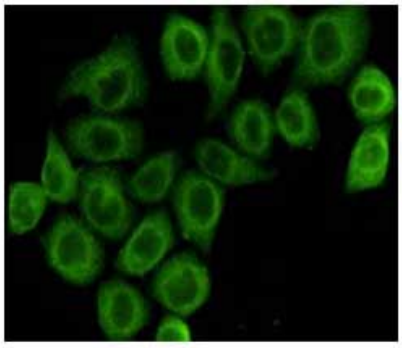
Background

The pyruvate dehydrogenase complex catalyzes the overall conversion of pyruvate to acetyl-CoA and CO2, and thereby links the glycolytic pathway to the tricarboxylic cycle

Images



Western blot detection of pyaivate dehydrogenase (lipoamide) alpha 1 in 293, 1299, mEsc and Tc1 cel) lysates using pyaivate dehydrogenase (lipoamide) alpha 1 mouse mAb



Immunocytochemistry staining of He La cells fixed with 4% Paraformaldehyde and using antipyruvate dehydrogenase (iipoamide) alpha 1 mouse mAb

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