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Phospho-PDHE1A(S232) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3758A

Product Information

Application	WB, DB, E
Primary Accession	P08559
Other Accession	P26284, P29804, P35486, Q8HXW9, A7MB35, NP_000275.1
Reactivity	Human
Predicted	Bovine, Monkey, Mouse, Pig, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB29473
Calculated MW	43296

Additional Information

Gene ID	5160
Other Names	Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial, PDHE1-A type I, PDHA1, PHE1A
Target/Specificity	This PDHE1A Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S232 of human PDHE1A.
Dilution	WB~~1:1000 DB~~1:500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Phospho-PDHE1A(S232) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

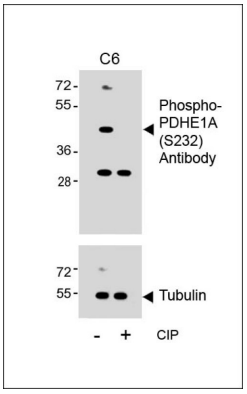
Name	PDHA1 (HGNC:8806)
Synonyms	PHE1A
Function	Together with PDHB forms the heterotetrameric E1 subunit of the pyruvate

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).

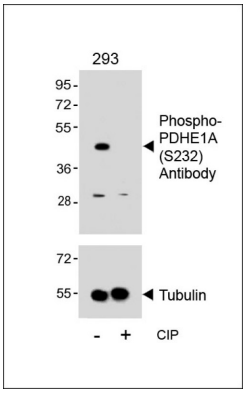
Cellular Location Mitochondrion matrix {ECO:0000250|UniProtKB:P26284}

Tissue Location Ubiquitous.

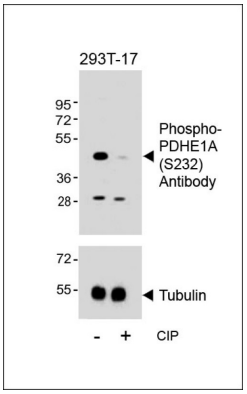
Images



Western blot analysis of lysates from C6 cell line, untreated or treated with CIP, 100ng/ml, using Phospho-PDHE1A(S232) Antibody(upper) or Tubulin (lower).

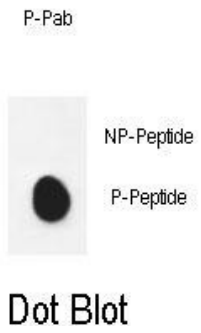


Western blot analysis of lysates from 293 cell line, untreated or treated with CIP, 100ng/ml, using Phospho-PDHE1A(S232) Antibody(upper) or Tubulin (lower).



Western blot analysis of lysates from 293T-17 cell line, untreated or treated with CIP, 100ng/ml, using Phospho-PDHE1A(S232) Antibody(upper) or Tubulin (lower).

Dot blot analysis of anti-mPDHE1A-S232 Phospho-specific



Pab (Cat. #AP3758a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.

Citations

- PINK1 Is a Negative Regulator of Growth and the Warburg Effect in Glioblastoma.
- JX06 Selectively Inhibits Pyruvate Dehydrogenase Kinase PDK1 by a Covalent Cysteine Modification.