

PDHA1 (phospho S293) polyclonal antibody (DyLight 488)

Catalog # PAB15341

Size 50 uL

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of PDHA1.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding S293 human PDHA1.
Host	Rabbit
Reactivity	Human
Specificity	This is specific to the phosphorylated Serine 293 form of the PDHE1 alpha protein. This antibody is useful for Western blot, where a band is seen ~43 KDa.
Form	Liquid
Conjugation	DyLight 488
Recommend Usage	Western Blot (1:2500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM sodium borate
Storage Instruction	Store at 4°C. Do not freeze.

Applications

- Western Blot

Gene Info — PDHA1

Entrez GeneID	5160
Protein Accession#	P08559
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	<p>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]</p>
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](#)