
Product Name: Phospho-Pyruvate Dehydrogenase E1-alpha subunit Rabbit Monoclonal Antibody**Catalog #: AMRe87115**

For research use only.

Summary

Description	Recombinant rabbit monoclonal antibody
Host	Rabbit
Application	WB,IHC,IP
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Phosphorylated
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Concentration	0.5mg/ml. The concentration of this product may be batch-dependent.
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% protective protein. Stable for 12 months from date of receipt.
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:1000-1:5000,IHC 1:100-1:200,IP 1:10-1:100
Molecular Weight	Calculated MW:43 kDa; Observed MW:43 kDa

Antigen Information

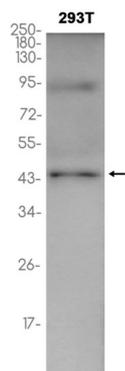
Gene Name	Phospho-Pyruvate Dehydrogenase E1-alpha subunit
Alternative Names	PDHA; PDHAD; PHE1A; PDHCE1A
Gene ID	5160
SwissProt ID	P08559
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Ser293 of human Pyruvate Dehydrogenase E1-alpha subunit

Background

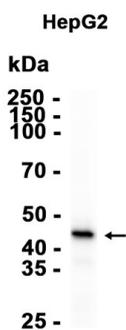
The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and CO₂, and provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle. The PDH complex is composed of multiple copies of three enzymatic components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and lipoamide dehydrogenase (E3). The E1 enzyme is a heterotetramer of two alpha and two beta subunits. This gene encodes the E1 alpha 1 subunit containing the E1 active site, and plays a key role in the function of the PDH complex. Mutations in this gene are associated with pyruvate dehydrogenase E1-alpha deficiency and X-linked Leigh syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2010]

Research Area

Image Data



Western blot analysis of extracts from 293T cells using Phospho-Pyruvate Dehydrogenase E1-alpha subunit Rabbit Monoclonal Antibody at 1:1000.



Western blot analysis of extracts from HepG2 cells using AMRe87115 at 1:1000.