



## PDH-E1α Monoclonal Antibody

Catalog No         BYab-03440           Isotype         IgG           Reactivity         Human;Mouse;Rat;Bovine;Dog;Pig           Applications         WB;IF           Gene Name         PDHA1 ODPA           Protein Name         Pytruvate dehydrogenase E1 component subunit alpha somatic form mitochondrial           Immunogen         Purified recombinant human PDH-E1α (C-terminus) protein fragments expressed in E.coli.           Specificity         PDH-E1α Monoclonal Antibody detects endogenous levels of PDH-E1α protein.           Formulation         Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM Nacl) with 0.2% sodium azide, 50% glycerol.           Source         Monoclonal, Mouse           Purification         Affinity purification           Dilution         Western Blot: 1/1000 - 1/2000. Immunofluorescence: 1/100 - 1/500. Not yet tested in other applications.           Concentration         1 mg/ml           Purity         ≥90%           Storage Stability         -20°C/1 year           Synonyms         PDHA1; PHE1A; Pyruvate dehydrogenase E1 component subunit alpha; somatic form, mitochondrial; PDHE1-A type I           Observed Band         Cell Pathway         Mitochondrion matrix.           Tissue Specificity         Ubiquitous.         catalytic activity: Pyruvate + [dihydrolipoyllysine-residue acetyltransferase] lipoyllysine = [dihydrolipoy		
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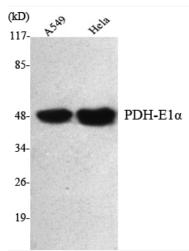


	X-linked Leigh syndrome (LS) [MIM:308930]. LS is an early-onset progressive neurodegenerative disorder with a characteristic neuropathology consisting of focal, bilateral lesions in o
Background	The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and CO(2), 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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

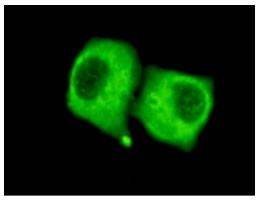




## **Products Images**



Western Blot analysis using PDH-E1 $\alpha$  Monoclonal Antibody against A549, HeLa cell lysate.



Immunofluorescence analysis of HeLa cells using PDH-E1 $\alpha$  Monoclonal Antibody.

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