Anti-PDHA1 Monoclonal Antibody (A-15B1)

Catalog #: ASZ1C1474

Product Details

Product Description:	The Anti-PDHA1 antibody is a mouse monoclonal antibody recommended for immunohistochemistry, immunocytochemistry, western blot, immunoprecipitation and other applications. This antibody specifically targets human PDHA1.
Host Species:	Mouse
Target:	PDHA1
Target Species:	Human
Specificity:	This antibody reacts with human Pyruvate Dehydrogenase E1 Alpha 1 Subunit (PDHA1).
Species Reactivity:	Human
Clonality:	Monoclonal
Clone ID:	A-15B1
Purification:	The antibody was purified by affinity chromatography.
Purity:	>95% as determined by SDS-PAGE

Formulation Information

Concentration:	1 mg/mL
Sterility:	0.2 μM filtered
Preservative:	0.02% sodium azide

Applications

Applications:	Immunohistochemistry, Immunocytochemistry, Western Blot, Immunoprecipitation
Recommended Dilution:	Western Blot: 1:500-1:5000 Immunohistochemistry: 1:50-1:200 Immunocytochemistry: 1:50-1:200
Note:	Optimal dilutions/concentrations should be determined by the end user.

Storage & Handling

Shipping:	Shipped at 4°C.
Storage:	This antibody can be stored at 2°C-8°C for one month. For longer storage, store at -20°C. Avoid repeated freeze-thaw cycles.

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Target Details

Protein Name:	Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial
Introduction:	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.
Alternative Names:	PDHA; PDHAD; PDHCE1A; PHE1A
Gene ID:	5160
UniProt:	P08559
Related Disease:	Pyruvate dehydrogenase E1-alpha deficiency (PDHAD)
Subcellular Location:	Mitochondrion matrix.
Cell Line Specificity:	Low cancer specificity
Function:	The pyruvate dehydrogenase complex catalyzes the overall conversion of pyruvate to acetyl-CoA and CO(2), and thereby links the glycolytic pathway to the tricarboxylic cycle.