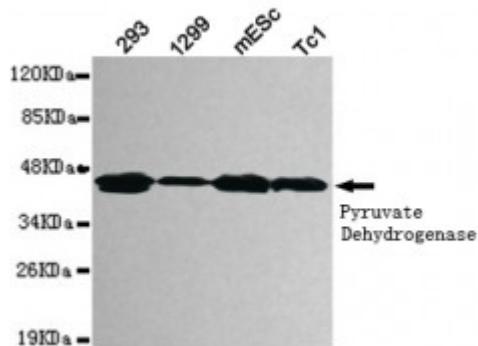


Anti-PDHA1 antibody



Description	Mouse monoclonal to PDHA1.
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Model	STJ99056
Host	Mouse
Reactivity	Human, Mouse
Applications	ELISA, WB
Immunogen	Purified recombinant human Pyruvate Dehydrogenase protein fragments expressed in E.coli.
Gene ID	5160
Gene Symbol	PDHA1
Dilution range	WB 1:500-2000 ELISA 1:10000-20000
Specificity	This antibody detects endogenous levels of pyruvate dehydrogenase (lipoamide) alpha 1 and does not cross-react with related proteins.
Tissue Specificity	Ubiquitous.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clone ID	3H2-F8-B5
Note	For Research Use Only (RUO).
Protein Name	Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial PDHE1-A type I
Molecular Weight	43kDa

Clonality	Monoclonal
Conjugation	Unconjugated
Isotype	IgG1
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:8806 OMIM:300502
Alternative Names	Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial PDHE1-A type I
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.
Cellular Localization	Mitochondrion matrix.
Post-translational Modifications	Phosphorylation at Ser-232, Ser-293 and Ser-300 by PDK family kinases inactivates the enzyme; for this phosphorylation at a single site is sufficient. Dephosphorylation at all three sites, i.e. at Ser-232, Ser-293 and Ser-300, is required for reactivation. Acetylation alters the phosphorylation pattern. Deacetylated by SIRT3 .

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