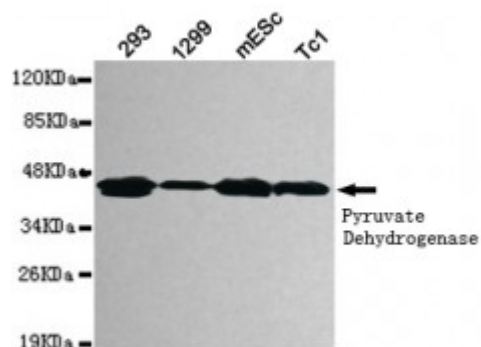


Anti-PDHA1 antibody



Description	Mouse monoclonal to PDHA1.
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 1:500-2000ELISA 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:8806OMIM: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 .