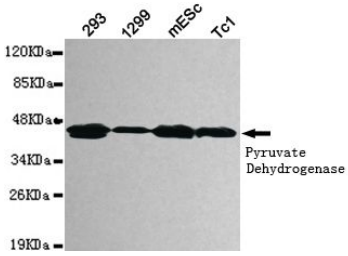
# PDHA1

## Mouse monoclonal Antibody

#53568

**Catalog Number:** 53568
**Amount:** 100μg/100μl
**Swiss-Prot No. :**P08559
**Gene name:**pdha1
**Gene id:**5160
**Clone Number：** 3H2-F8-B5
**Form of Antibody:**Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50%,glycerol
**Storage/Stability:** Store at -20℃/1 year
**Immunogen:** Purified recombinant human Pyruvate Dehydrogenase protein fragments expressed in E.coli.
**Purification:** affinity-chromatography
**Specificity/Sensitivity:**This antibody detects endogenous levels of Pyruvate Dehydrogenase(lipoamide) alpha 1 and does not corss-react with related proteins
**Reactivity:** Mouse
**Applications:** Predicted MW: 43 kd WB: 1:1000 ICC:1:100




Western blot detection of pyruvate dehydrogenase (lipoamide) alpha 1 in 293,1299,mEsc and Tc1 cell lysates using pyruvate dehydrogenase (lipoamide) alpha 1 mouse mAb (1:1000 diluted).Predicted band size: 43KDa.Observed band size: 43KDa.

**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.