Leader in Biomolecular Solutions for Life Science

www.abclonal.com

Phospho-PDHA1-S293 Rabbit pAb

Catalog No.: AP1250SP **1 Publications**

Basic Information

Observed MW
43 kDa

Calculated MW
40-47 kDa

Category
Primary antibody

Applications
WB,ELISA

Cross-Reactivity
Human, Mouse

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.

Recommended Dilutions

WB	1:2000 - 1:20000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.For high-ratio antibody dilutions (≥1:10000)a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
5160

Swiss Prot
P08559

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
PDHA; PDHAD; PHE1A; E1alpha; PDHCE1A

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide. May contain 0.05% BSA as specified on the Certificate of Analysis.

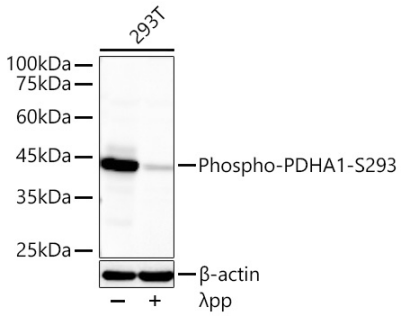
Contact

400-999-6126

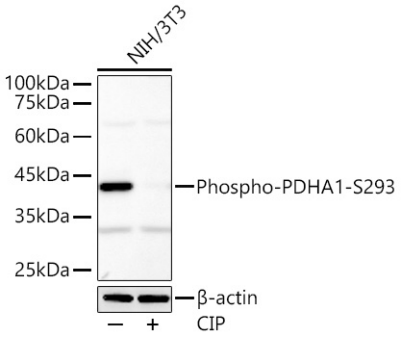
cn.market@abclonal.com.cn

www.abclonal.com.cn

Validation Data



Western blot analysis of various lysates using Phospho-PDHA1-S293 Rabbit pAb (AP1250SP) at 1:20000 dilution incubated overnight at 4℃. 293T cells were treated with λpp (2 U/μL) at 30℃ for 1 hour.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30 s.



Western blot analysis of lysates from NIH/3T3 cells using Phospho-PDHA1-S293 Rabbit pAb (AP1250SP) at 1:20000 dilution incubated overnight at 4℃. NIH/3T3 cells were treated with CIP (1 U/μl) at 37℃ for 1 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30 s.