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Phospho-PDHA1-S293 Rabbit mAb

Catalog No.: AP1022 Recombinant 8 Publications

Basic Information

Observed MW
43kDa

Calculated MW
43kDa

Category
Primary antibody

Applications
WB,IP,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC53489

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	1:10000 - 1:40000
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
5160

Swiss Prot
P08559

Immunogen
A synthetic phosphorylated peptide around S293 of human PDHA1 (P08559).

Synonyms
PDHA; PDHAD; PHE1A; E1alpha; PDHCE1A; Phospho-PDHA1-S293

Contact

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Product Information

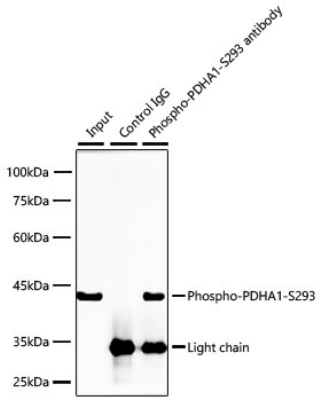
Source
Rabbit

Isotype
IgG

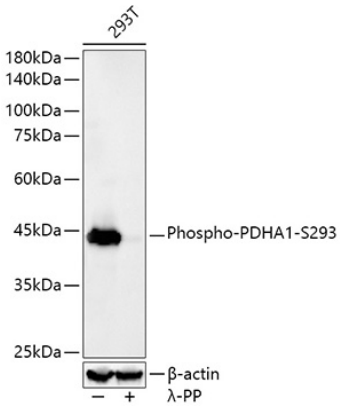
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

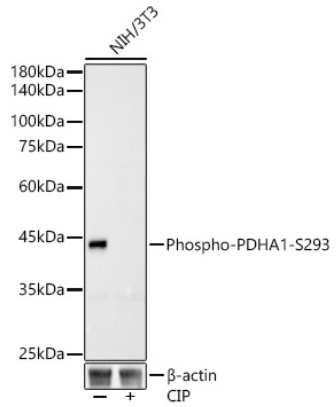
Validation Data



Immunoprecipitation analysis of 300 µg extracts of 293T cells using 3 µg Phospho-PDHA1-S293 Rabbit mAb (AP1022). Western blot was performed from the immunoprecipitate using Phospho-PDHA1-S293 Rabbit mAb (AP1022) at a dilution of 1:20000.



Western blot analysis of lysates from HeLa cells, using Phospho-PDHA1-S293 Rabbit mAb (AP1022) at 1:23000 dilution. 293T cells were treated by λ-PP mixed solution (1ul) at 30℃ for 30 minutes.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



Western blot analysis of lysates from NIH/3T3 cells, using Phospho-PDHA1-S293 Rabbit mAb (AP1022) at1:23000 dilution. NIH/3T3 cells were treated by CIP(20uL/400ul) at 37℃ for 1 hour.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.