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Phospho-PDHA1-S293 Rabbit mAb

Catalog No.: AP1022 Recombinant 9 Publications

Basic Information

Observed MW
43 kDa

Calculated MW
43 kDa

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	1:5000 - 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
Synthetic peptide. This information is considered to be commercially sensitive.

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

Contact

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Product Information

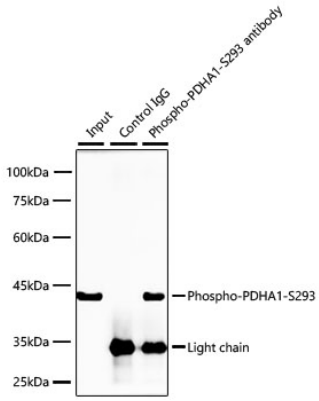
Source
Rabbit

Isotype
IgG

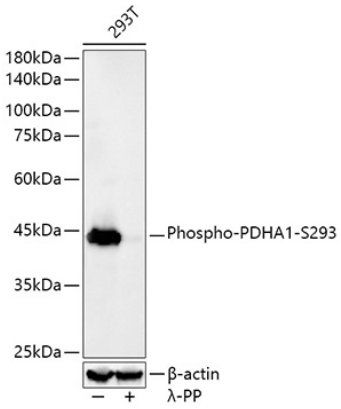
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

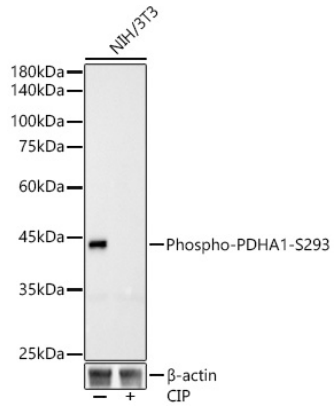
Validation Data



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.

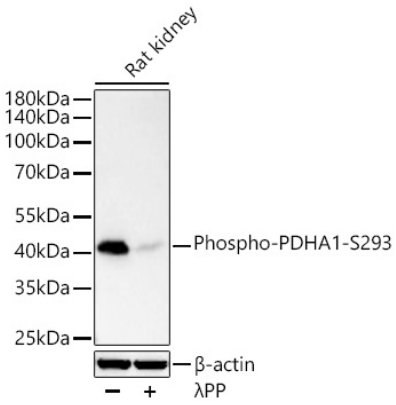


Western blot analysis of lysates from HeLa cells, using Phospho-PDHA1-S293 Rabbit mAb (AP1022) at 1:23000 dilution. 293T cells were treated by λ-PP mixed solution (1ul) at 30℃ for 30 minutes.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 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.

Validation Data



Western blot analysis of lysates from Rat kidney using Phospho-PDHA1-S293 Rabbit mAb (AP1022) at 1:5000 dilution incubated overnight at 4℃. Rat kidney were treated with λpp (2 U/ul) 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: 60 s.