

AP1022

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Phospho-PDHA1-S293 Rabbit mAb

Catalog No.: AP1022

Recombinant

8 Publications

Basic Information

Observed MW

43kDa

Calculated MW

43kDa

Category

SMab Recombinant Monoclonal
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 CO₂, 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

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

Synonyms

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

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage

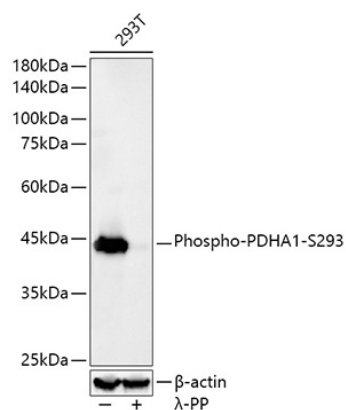
Store at -20°C. Avoid freeze / thaw cycles.

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.

Contact

 www.abclonal.com

Validation Data



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°C for 30 minutes.

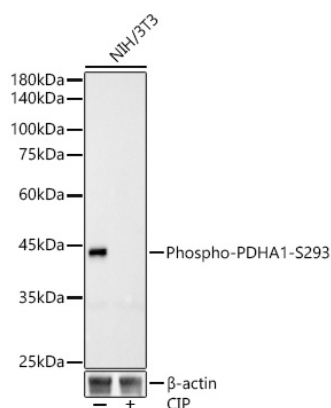
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

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) at 1:23000 dilution. NIH/3T3 cells were treated by CIP (20uL/400ul) at 37°C 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.