

AP1022

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Phospho-PDHA1-S293 Rabbit mAb

Catalog No.: AP1022

Recombinant

5 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 1:2000 - 1:20000

IP 0.5µg-4µg antibody for
200µg-400µg extracts of
whole cells

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



www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

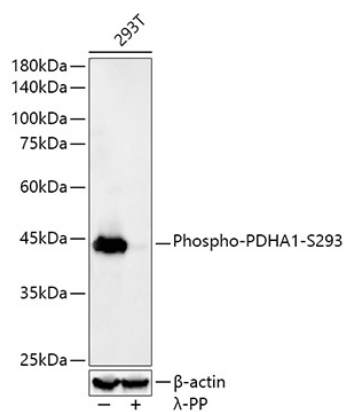
Affinity purification

Storage

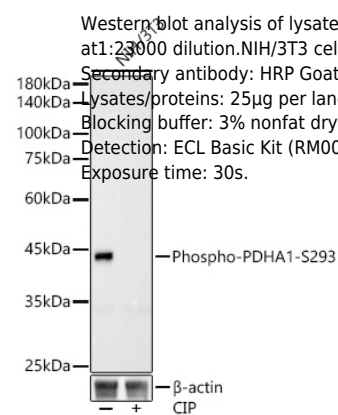
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

Validation Data



Western blot analysis of lysates from HeLa 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 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.



Immunoprecipitation analysis of 300 μg extracts of NIH/3T3 cells using 3 μg Phospho-PDHA1-S293 antibody (AP1022). Western blot was performed from the immunoprecipitate using Phospho-PDHA1-S293 antibody (AP1022) at a dilution of 1:1000.

