

Phospho-ACLY-S455 Rabbit pAb

Catalog No.: AP0779

Basic Information

Observed MW

125kDa

Calculated MW

121kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, IP

Cross-Reactivity

Human, Mouse, Rat

Background

ATP citrate lyase is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA in many tissues. The enzyme is a tetramer (relative molecular weight approximately 440,000) of apparently identical subunits. It catalyzes the formation of acetyl-CoA and oxaloacetate from citrate and CoA with a concomitant hydrolysis of ATP to ADP and phosphate. The product, acetyl-CoA, serves several important biosynthetic pathways, including lipogenesis and cholesterol synthesis. In nervous tissue, ATP citrate-lyase may be involved in the biosynthesis of acetylcholine. Multiple transcript variants encoding distinct isoforms have been identified for this gene.

Recommended Dilutions

WB 1:100 - 1:500

IHC-P 1:50 - 1:100

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

Immunogen Information

Gene ID

47

Swiss Prot

P53396

Immunogen

A synthetic phosphorylated peptide around S455 of human ACLY (NP_001087.2).

Synonyms

ACL; ATPCL; CLATP; Phospho-ACLY-S455

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

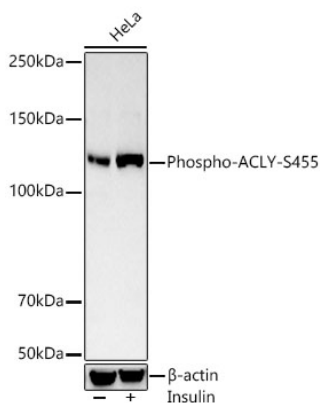
Affinity purification

Storage

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

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of lysates from HeLa cells using Phospho-ACLY-S455 Rabbit pAb (AP0779) at 1:400 dilution. HeLa cells were treated by Insulin (50 nM) at 37°C for 30 minutes after serum-starvation overnight.

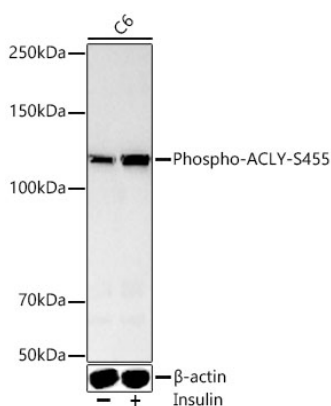
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 60s.



Western blot analysis of lysates from C6 cells using Phospho-ACLY-S455 Rabbit pAb (AP0779) at 1:400 dilution. C6 cells were treated by Insulin (100 ng/mL) at 37°C for 30 minutes after serum-starvation overnight.

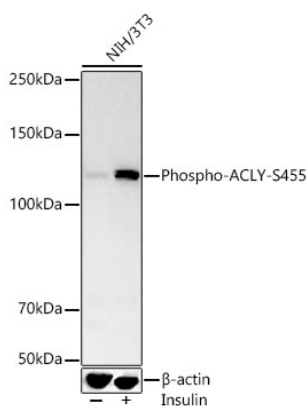
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 60s.



Western blot analysis of lysates from NIH/3T3 cells using Phospho-ACLY-S455 Rabbit pAb (AP0779) at 1:400 dilution. NIH/3T3 cells were treated by Insulin (200 nM) at 37°C for 30 minutes after serum-starvation overnight.

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

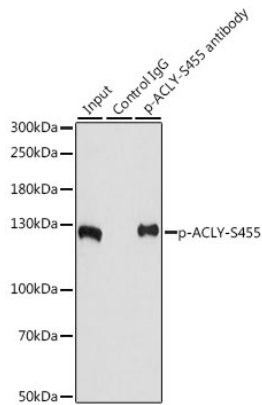
Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

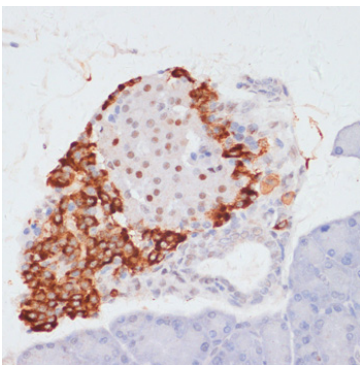
Detection: ECL Basic Kit (RM00020).

Exposure time: 60s.

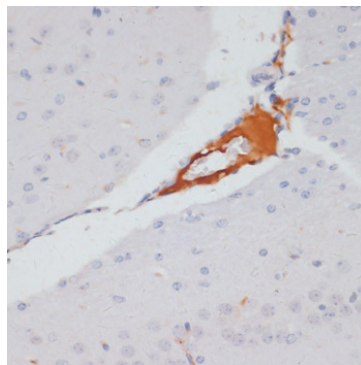
Validation Data



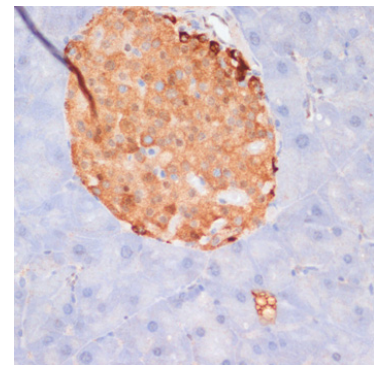
Immunoprecipitation analysis of 200 µg extracts of NIH/3T3 cells, using 3 µg Phospho-ACLY-S455 pAb (AP0779). Western blot was performed from the immunoprecipitate using Phospho-ACLY-S455 pAb (AP0779) at a dilution of 1:1000. NIH/3T3 cells were treated by Insulin (100 nM) at 37°C for 10 minutes after serum-starvation overnight.



Immunohistochemistry analysis of paraffin-embedded Rat pancreas using Phospho-ACLY-S455 Rabbit pAb (AP0779) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse brain using Phospho-ACLY-S455 Rabbit pAb (AP0779) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse pancreas using Phospho-ACLY-S455 Rabbit pAb (AP0779) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.