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# Phospho-ACLY-S455 Rabbit pAb

**Catalog No.: AP0779**

## Basic Information

**Observed MW**
125kDa

**Calculated MW**
121kDa

**Category**
Primary antibody

**Applications**
WB,IHC-P,IP,ELISA

**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 cholesterogenesis. 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 |
| **ELISA** | Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. |

## 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

## Product Information

**Source**
Rabbit

**Isotype**
IgG

**Purification**
Affinity purification

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

## Contact


400-999-6126

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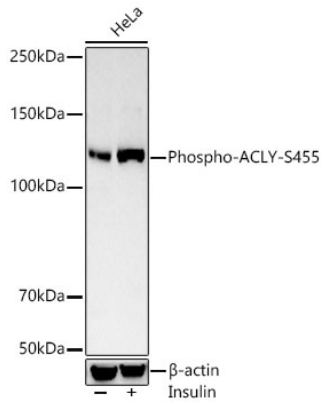
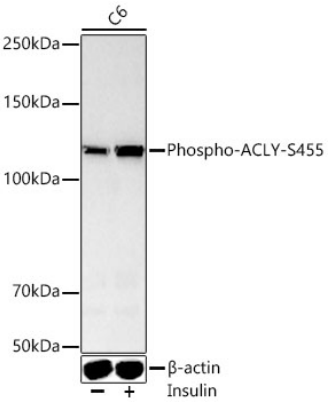
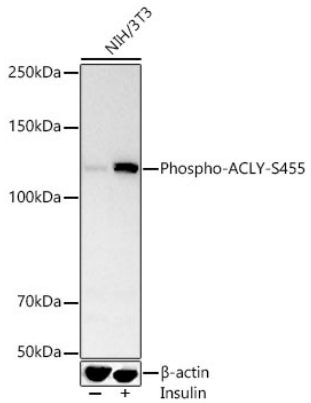
## Validation Data




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℃ 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.

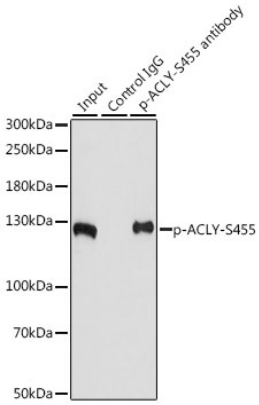



Western blot analysis of lysates from C6 cells using Phospho-ACLY-S455 Rabbit pAb (AP0779) at 1:400 dilution. C6 cells were treated by Insulin (100 ng/mL) at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.

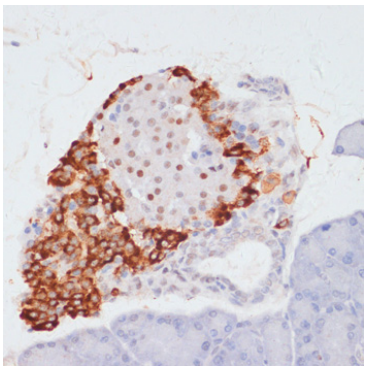



Western blot analysis of lysates from NIH/3T3 cells using Phospho-ACLY-S455 Rabbit pAb (AP0779) at 1:400 dilution. NIH/3T3 cells were treated by Insulin (200 nM) at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.

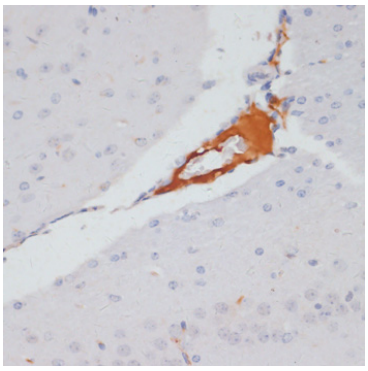
## Validation Data



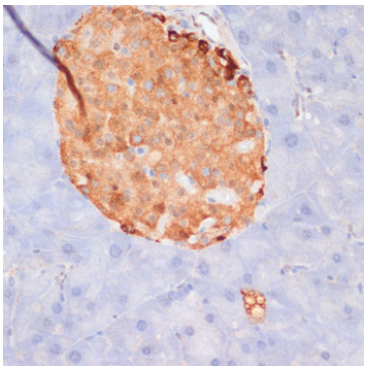

Immunoprecipitation analysis of 200 µg extracts of NIH/3T3 cells, using 3 µg Phospho-ACLY-S455 pAb (AP0779). Western blot was performed from the immunoprecipitate using Phospho-ACLY-S455 pAb (AP0779) at a dilution of 1:1000. NIH/3T3 cells were treated by Insulin (100 nM) at 37℃ for 10 minutes after serum-starvation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