Leader in Biomolecular Solutions for Life Science

Phospho-ACLY-S455 Rabbit pAb

Catalog No.: AP0779

2 Publications

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Basic Information

Observed MW
125 kDa

Calculated MW
121kDa

Category
Polyclonal Antibodies

Applications
WB, IP, IHC-P, 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 1:500 - 1:2000

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

IHC-P 1:50 - 1:100

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

Synonyms
ACL; ATPCL; CLATP; Phospho-ACLY-S455

Contact

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Product Information

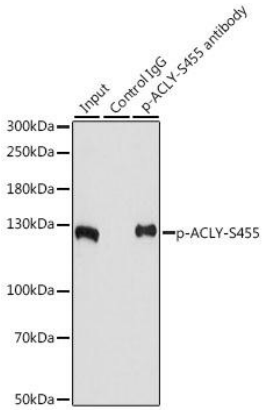
Source
Rabbit

Isotype
IgG

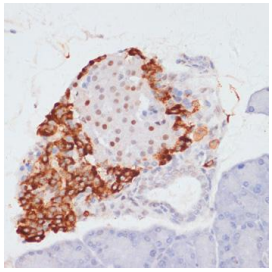
Purity
Affinity purification

Storage
Store at -20℃

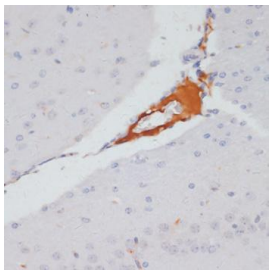
Validation Data



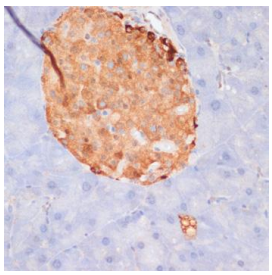
Immunoprecipitation analysis of 200 µg extracts of NIH/3T3 cells, using 3 µg Phospho-ACLY-S455 pAb (AP0779). Western blot was performed from the immunoprecipitate using Phospho-ACLY-S455 pAb (AP0779) at a dilution of 1:1000. NIH/3T3 cells were treated with Insulin (100 nM) at 37℃ for 10 minutes after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



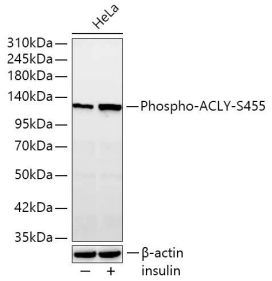
Immunohistochemistry analysis of paraffin-embedded Rat pancreas using Phospho-ACLY-S455 Rabbit pAb (AP0779) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



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.

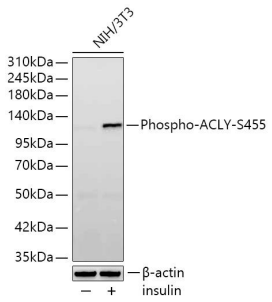


Immunohistochemistry analysis of paraffin-embedded Mouse pancreas using Phospho-ACLY-S455 Rabbit pAb (AP0779) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.

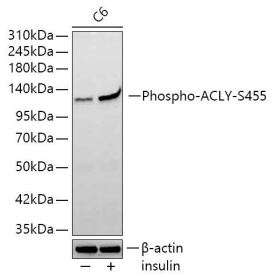


Western blot analysis of lysates from HeLa cells using Phospho-ACLY-S455 Rabbit pAb (AP0779) at 1:1000 dilution incubated overnight at 4°C. HeLa cells were treated with insulin (50 nM) at 37°C for 30 minutes.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60 s.

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.



Western blot analysis of lysates from NIH/3T3 cells using Phospho-ACLY-S455 Rabbit pAb (AP0779) at 1:1000 dilution incubated overnight at 4°C. NIH/3T3 cells were treated with insulin (200 nM) at 37°C for 30 minutes.
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.



Western blot analysis of lysates from C6 cells using Phospho-ACLY-S455 Rabbit pAb (AP0779) at 1:1000 dilution incubated overnight at 4°C. C6 cells were treated with insulin (100 nM) at 37°C for 30 minutes.
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.