AP1474

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Phospho-ACLY-S455 Rabbit mAb

Catalog No.: AP1474 Recombinant

Basic Information

Observed MW
125kDa

Calculated MW
121kDa

Category
SMab Recombinant Monoclonal Antibody

Applications
WB,IHC-P,ELISA

Cross-Reactivity
Human,Mouse,Rat

CloneNo number
ARC63942

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 - 1:1000
IHC-P	1:50 - 1:200

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

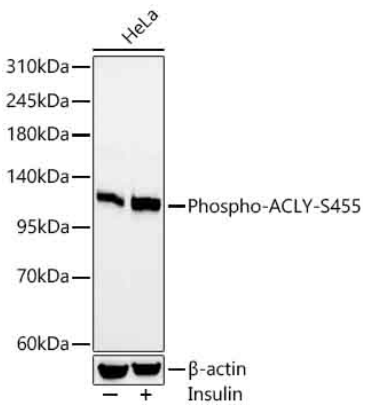
Source
Rabbit

Isotype
IgG

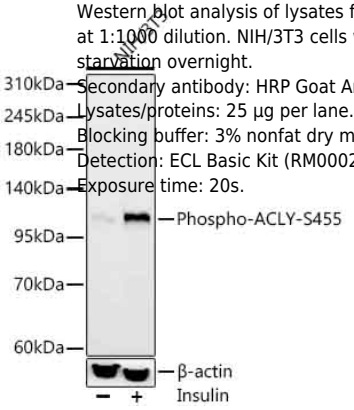
Purification
Affinity purification

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

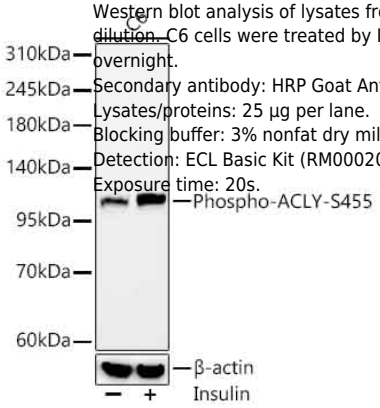
Validation Data



Western blot analysis of lysates from HeLa cells using Phospho-ACLY-S455 Rabbit mAb (AP1474) at 1:1000 dilution. HeLa cells were treated by Insulin (50 nM) at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP 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: 20s.

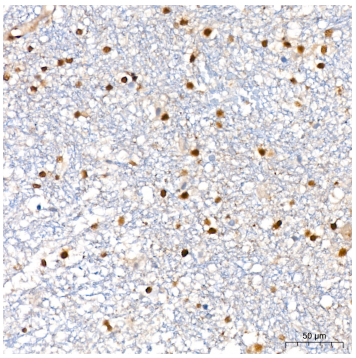


Western blot analysis of lysates from NIH/3T3 cells using Phospho-ACLY-S455 Rabbit mAb (AP1474) at 1:1000 dilution. NIH/3T3 cells were treated by Insulin (200 nM) at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20s.

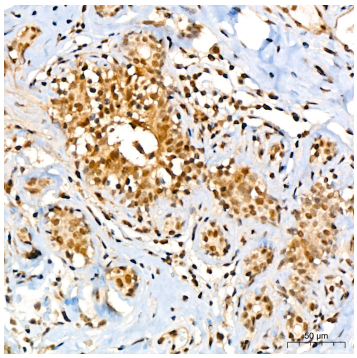


Western blot analysis of lysates from C6 cells using Phospho-ACLY-S455 Rabbit mAb (AP1474) at 1:1000 dilution. C6 cells were treated by Insulin (100 ng/ml) at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20s.

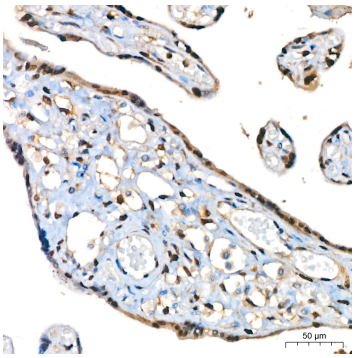
Validation Data



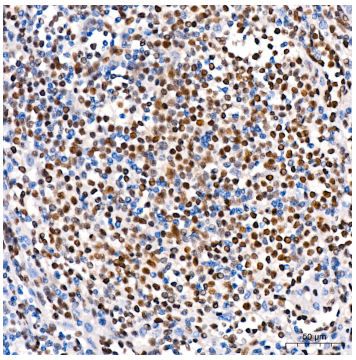
Immunohistochemistry analysis of Phospho-ACLY-S455 in paraffin-embedded Human brain tissue using Phospho-ACLY-S455 Rabbit mAb (AP1474) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Phospho-ACLY-S455 in paraffin-embedded Human breast tissue using Phospho-ACLY-S455 Rabbit mAb (AP1474) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Phospho-ACLY-S455 in paraffin-embedded Human placenta tissue using Phospho-ACLY-S455 Rabbit mAb (AP1474) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Phospho-ACLY-S455 in paraffin-embedded Human spleen tissue using Phospho-ACLY-S455 Rabbit mAb (AP1474) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.