Anti-Phospho-ATP Citrate lyase (Ser455) Rabbit pAb

Purified Rabbit Polyclonal Antibody

Catalog # P108489

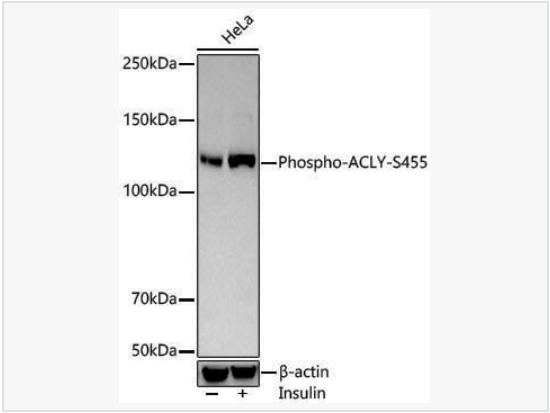
Product Information

Application	WB, IHC-P, IP, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:100~1:500 ; IHC-P 1:50~1:100; IP 0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphorylated peptide around S455 of human ACLY (NP_001087.2).
Format	Affinity purified polyclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-ATP Citrate lyase (Ser455) Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures.

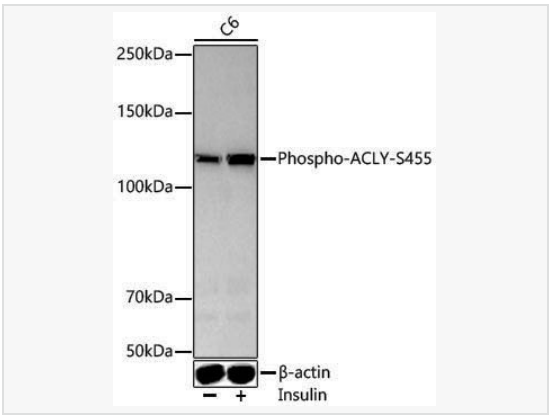
Protein Information

Synonyms	ACL; ATPCL; CLATP; Phospho-ACLY-S455.
Calculated MW	Calculated MW: 121 kDa; Observed MW: 125 kDa
Uniprot ID	P53396
Gene ID	47
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.

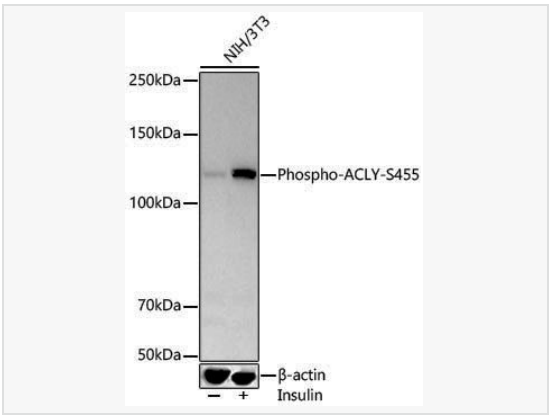
Validation Images



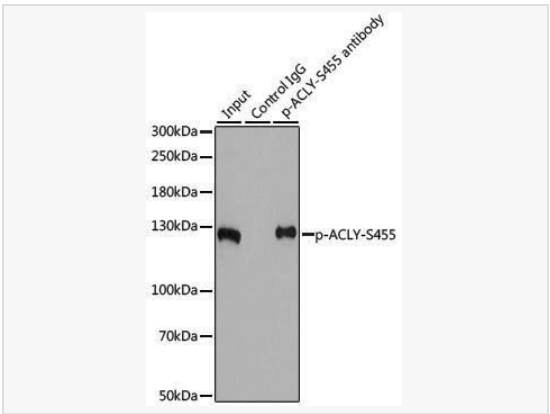
Western blot analysis of lysates from HeLa cells using Phospho-ACLY-S455 Rabbit pAb (P108489) at 1:400 dilution. HeLa cells were treated by Insulin (50 nM) at 37°C for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Kit.
Exposure time: 60s.



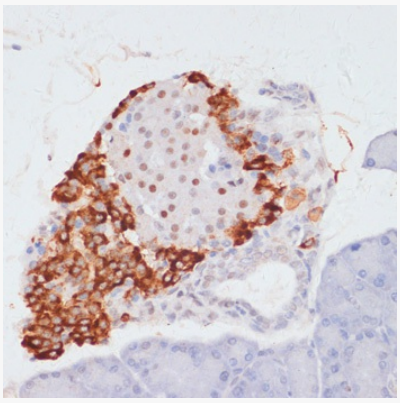
Western blot analysis of lysates from C6 cells using Phospho-ACLY-S455 Rabbit pAb (P108489) at 1:400 dilution. C6 cells were treated by Insulin (100 ng/mL) at 37°C for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Kit.
Exposure time: 60s.



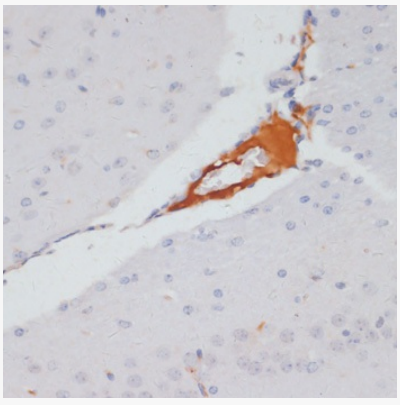
Western blot analysis of lysates from NIH/3T3 cells using Phospho-ACLY-S455 Rabbit pAb (P108489) at 1:400 dilution. NIH/3T3 cells were treated by Insulin (200 nM) at 37°C for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Kit.
Exposure time: 60s.



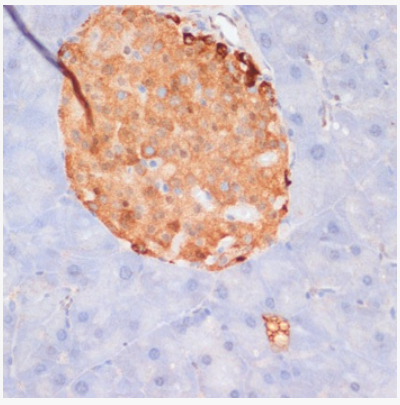
Immunoprecipitation analysis of 200 µg extracts of NIH/3T3 cells, using 3 µg Phospho-ACLY-S455 pAb (P108489). Western blot was performed from the immunoprecipitate using Phospho-ACLY-S455 pAb (P108489) at a dilution of 1:1000. NIH/3T3 cells were treated by Insulin (100 nM) at 37°C for 10 minutes after serum-starvation overnight.



Immunohistochemistry analysis of paraffin-embedded Rat pancreas using Phospho-ACLY-S455 Rabbit pAb (P108489) at dilution of 1:100 (40× 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 (P108489) at dilution of 1:100 (40× 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 (P108489) at dilution of 1:100 (40× lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.