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ATP-Citrate Lyase (C-terminus) Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52697

Product Information

Application	WB, ICC, FC
Primary Accession	P53396
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Calculated MW	120839

Additional Information

Gene ID	47
Other Names	ACL;Acly;ACLY_HUMAN;ATP citrate (pro-S) lyase;ATP citrate lyase;ATP citrate synthase; ATP-citrate (pro-S-)-lyase;ATP-citrate synthase;ATPcitrate synthase;ATPCL;Citrate cleavage enzyme;CLATP;EC 2.3.3.8;OTTHUMP00000164773.
Dilution	WB~~1:1000 ICC~~1:150 FC~~1:100
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	ACLY
Function	Catalyzes the cleavage of citrate into oxaloacetate and acetyl-CoA, the latter serving as common substrate in multiple biochemical reactions in protein, carbohydrate and lipid metabolism.
Cellular Location	Cytoplasm, cytosol.

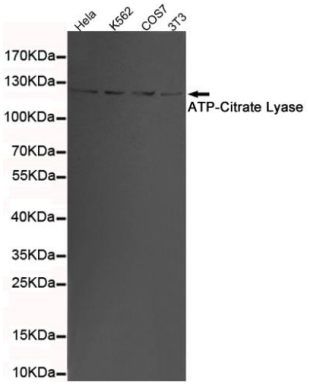
Background

ATP citrate-lyase is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA in many tissues. Has a central role in de novo lipid synthesis. In nervous tissue it may be involved in the biosynthesis of acetylcholine.

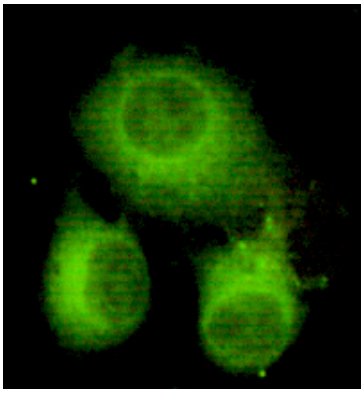
References

Elshourbagy N.A.,et al.Eur. J. Biochem. 204:491-499(1992).
Lord K.A.,et al.Protein Expr. Purif. 9:133-141(1997).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Zody M.C.,et al.Nature 440:1045-1049(2006).
Potapova I.A.,et al.Biochemistry 39:1169-1179(2000).

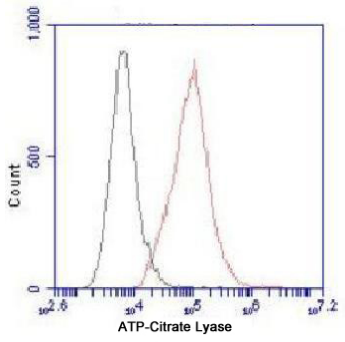
Images



Western blot detection of ATP-Citrate Lyase in 3T3,K562,COS7 and Hela cell lysates using ATP-Citrate Lyase mouse mAb (1:1000 diluted).Predicted band size: 120KDa.Observed band size: 120KDa.



Immunocytochemistry of HeLa cells using anti-ATP-Citrate Lyase (C-terminus) mouse mAb diluted 1:150.



Flow Cytometry analysis of HeLa cells stained with ATP-Citrate Lyase (red, 1/100 dilution), followed by FITC-conjugated goat anti-mouse IgG. Black line histogram represents the isotype control, normal mouse IgG