Data Sheet (Cat.No.TMAH-00015)

Anti-ATP citrate lyase/ACLY Antibody (9F685)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	9F685
Purification:	Affinity-chromatography

Applications

Verified Activity:	1. Western Blot -Positive WB detected in: L02 whole cell lysate, K562 whole cell lysate, Hela whole cell lysate, Raji whole cell lysate, A549 whole cell lysate -All lanes: ACLY antibody at 1:1500 -Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution -Predicted band size: 121, 120, 92 kDa -Observed band size: 120 kDa 2. Immunofluorescence staining of HepG2 Cells with TMAH-00015 at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L). 3. Overlay histogram showing Hela cells stained with TMAH-00015 (red line) at 1:50. The cells were fixed with 70% Ethylalcohol (18h) and then incubated in 10% normal goat serum to block non-specific protein-protein interactions followedby the antibody (1μg/1*10^6 cells) for 1 h at 4°C.The secondary antibody used was FITC-conjugated goat anti-rabbit IgG (H+L) at 1/200 dilution for 30min at 4°C. Control antibody (green line) was Rabbit IgG (1μg/1*10^6 cells) used under the same conditions. Acquisition of >10,000 events was performed.
Application:	ELISA, WB, IF, FCM
Recommended	WB:1:500-1:5000; IF:1:20-1:200; FCM:1:20-1:200.

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: Human ATP citrate lyase
Antigen Species:	Human
Gene ID:	47
Uniprot ID:	P53396
Synonyms:	CLATP;ATPCL;ACL;ATP citrate lyase
Biology Area:	Cancer, Metabolism, Signal transduction

Research Background

Catalyzes the cleavage of citrate into oxaloacetate and acetyl-CoA, the latter serving as common substrate for de novo cholesterol and fatty acid synthesis.

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