

ACAT1 Rabbit monoclonal antibody

Catalog: MB66308

Host: Rabbit

Reactivity: Human

BackGround:

Mitochondrial acetyl-coenzyme A (CoA) acetyltransferase 1 (ACAT1) plays a pivotal role in ketogenesis and branched chain amino acid metabolism. Research studies have demonstrated that ACAT1 also plays a key role in carbohydrate metabolism of tumor cells by directly acetylating and inhibiting the activity of the pyruvate dehydrogenase complex (PDH) and PDH phosphatase, which leads to decreased carbon flux through PDH and increased glycolysis. Mechanistically, it has been shown that numerous oncogenic tyrosine kinases directly phosphorylate ACAT1 at Y407, which promotes tetramerization and stabilization of the active enzyme in order to drive glycolysis and tumor growth.

Product:

Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.

Molecular Weight:

~ 45 kDa

Swiss-Prot:

P24752

Purification&Purity:

The antibody was purified by immunogen affinity chro-

matography.

Applications:

WB (1/500 - 1/1000), IP (1/10 - 1/50)

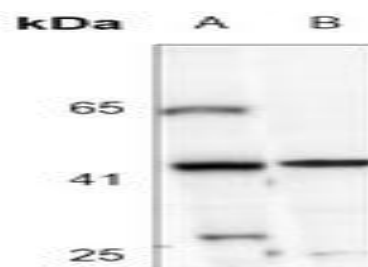
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of ACAT1 protein.

DATA:



Western blot analysis of ACAT1 expression in K562 (A), HeLa (B) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

Bioworld Technology, Inc.

Add: 1660 South Highway 100, Suite 500 St. Louis Park, MN 55416, USA.

Email: info@bioworld.com

Tel: 6123263284

Fax: 6122933841

Bioworld technology, co. Ltd.

Add: No 9, weidi road Qixia District Nanjing, 210046, P. R. China.

Email: info@biogot.com

Tel: 0086-025-68037686

Fax: 0086-025-68035151