Datasheet for ABIN7599600

anti-ACAT1 antibody (AA 10-404)

Go to Product page

Overview

Quantity:	100 µg
Target:	ACAT1
Binding Specificity:	AA 10-404
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACAT1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-ACAT1 Antibody Picoband®
Immunogen:	E.coli-derived human ACAT1 recombinant protein (Position: S10-Q404).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-ACAT1 Antibody Picoband® (ABIN7599600). Tested in ELISA, IF, IHC, ICC, WB, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	ACAT1
Alternative Name:	ACAT1 (ACAT1 Products)
Background:	Synonyms: Bifunctional epoxide hydrolase 2,Cytosolic epoxide hydrolase 2,CEH,3.3.2.10,Epoxide hydratase,Soluble epoxide hydrolase,SEH,Lipid-phosphate phosphatase,3.1.3.76,EPHX2, Tissue Specificity: Ubiquitous. A high level expression is seen in secretory tissues. Background: Acetyl-CoA acetyltransferase, mitochondrial, also known as acetoacetyl-CoA thiolase, is an enzyme that in humans is encoded by the ACAT1 (Acetyl-Coenzyme A acetyltransferase 1) gene. This gene encodes a mitochondrially localized enzyme that catalyzes the reversible formation of acetoacetyl-CoA from two molecules of acetyl-CoA. Defects in this gene are associated with 3-ketothiolase deficiency, an inborn error of isoleucine catabolism characterized by urinary excretion of 2-methyl-3-hydroxybutyric acid, 2-methylacetoacetic acid, tiglylglycine, and butanone.
Molecular Weight:	40 kDa
Gene ID:	38
UniProt:	P24752

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Daum, R. S., Scriver, C. R., Mamer, O. A., Delvin, E., Lamm, P. H., Goldman, H. An inherited disorder of isoleucine catabolism causing accumulation of alpha-methylacetoacetate and alpha-methyl-beta-hydroxybutyrate and intermittent metabolic acidosis. Pediat. Res. 7: 149-160, 1973. 2. Fukao, T., Matsuo, N., Zhang, G. X., Urasawa, R., Kubo, T., Kohno, Y., Kondo, N. Single base substitutions at the initiator codon in the mitochondrial acetoacetyl-CoA thiolase (ACAT1/T2) gene result in production of varying amounts of wild-type T2 polypeptide. Hum. Mutat. 21: 587-592, 2003. 3. Fukao, T., Nakamura, H., Nakamura, K., Perez-Cerda, C., Baldellou, A., Barrionuevo, C. R., Castello, F. G., Kohno, Y., Ugarte, M., Kondo, N. Characterization of six mutations in five Spanish patients with mitochondrial acetoacetyl-CoA thiolase deficiency: effects of amino acid substitutions on tertiary structure. Molec. Genet. Metab. 75: 235-243,

Application Details

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Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.