

## Product datasheet for **AP31747PU-N**

### ACAT1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Immunohistochemistry on Paraffin Sections:</b> 2.5 µg/ml. <b>Western Blot:</b> 1/1000 - 1/4000.
Reactivity:	Human, Mouse, Porcine, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide
Specificity:	This Polyclonal antibody is directed against Human ACAT1 protein. Cross-reactivity with ACAT1 from other sources has not been determined.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	acetyl-CoA acetyltransferase 1
Database Link:	<a href="#">Entrez Gene 25014 Rat</a> <a href="#">Entrez Gene 110446 Mouse</a> <a href="#">Entrez Gene 38 Human P24752</a>



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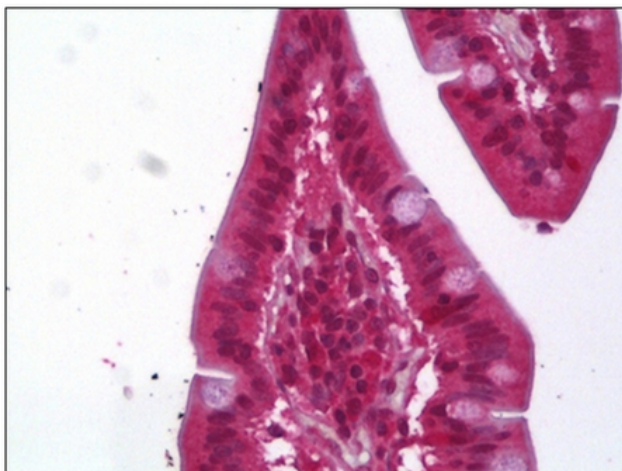
**Background:** ACAT1 mRNA encodes a mitochondrially localized enzyme that catalyzes the reversible formation of acetoacetyl-CoA from two molecules of acetyl-CoA. The ACAT gene spans approximately 27 kb and contains 12 exons interrupted by 11 introns. Defects in this gene are associated with the alpha-methylacetoaceticaciduria disorder, an inborn error of isoleucine catabolism characterized by urinary excretion of 2-methyl-3-hydroxybutyric acid, 2-methylacetoacetic acid, tiglylglycine, and butanone.

**Synonyms:** ACAT; MAT; T2; THIL

**Protein Families:** Druggable Genome

**Protein Pathways:** Butanoate metabolism, Fatty acid metabolism, Lysine degradation, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism, Synthesis and degradation of ketone bodies, Terpenoid backbone biosynthesis, Tryptophan metabolism, Valine, leucine and isoleucine degradation

### Product images:



Human Small Intestine: Formalin-Fixed, Paraffin-Embedded (FFPE)