



Rabbit Anti-Human ACY1 Polyclonal Antibody (CABT-L2195)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Polyclonal Antibody to Aminoacylase 1 (Knockout Validated)
The antibody is a rabbit polyclonal antibody raised against ACY1. It has been selected for its ability to recognize ACY1 in immunohistochemical staining and western blotting.
ACY1
Recombinant fragment corresponding to human ACY1 (Thr2~Ser408)
IgG
Rabbit
Human, Pig
Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Unconjugated
WB
Liquid
Lot specific
200 μg
Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
0.05% Proclin-300

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Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

BACKGROUND

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This gene encodes a cytosolic, homodimeric, zinc-binding enzyme that catalyzes the hydrolysis of acylated L-amino acids to L-amino acids and an acyl group, and has been postulated to function in the catabolism and salvage of acylated amino acids. This gene is located on chromosome 3p21.1, a region reduced to homozygosity in small-cell lung cancer (SCLC), and its expression has been reported to be reduced or undetectable in SCLC cell lines and tumors. The amino acid sequence of human aminoacylase-1 is highly homologous to the porcine counterpart, and this enzyme is the first member of a new family of zinc-binding enzymes. Mutations in this gene cause aminoacylase-1 deficiency, a metabolic disorder characterized by central nervous system defects and increased urinary excretion of N-acetylated amino acids. Alternative splicing of this gene results in multiple transcript variants. Read-through transcription also exists between this gene and the upstream ABHD14A (abhydrolase domain containing 14A) gene, as represented in GenelD:100526760. A related pseudogene has been identified on chromosome 18. [provided by RefSeq, Nov 2010]

Keywords

ACY1-D;ACY1D;ACYLASE;N-acyl-L-amino-acid amidohydrolase

GENE INFORMATION

Gene Name	ACY1 aminoacylase 1 [Homo sapiens (human)]
Official Symbol	ACY1
Synonyms	ACY1; aminoacylase 1; ACY-1; ACY1D; HEL-S-5; aminoacylase-1; acylase; epididymis secretory protein Li 5; N-acyl-L-amino-acid amidohydrolase;
Entrez Gene ID	<u>95</u>
Protein Refseq	NP_000657
UniProt ID	Q03154
Chromosome Location	3p21.1
Pathway	2-Oxocarboxylic acid metabolism; Aflatoxin activation and detoxification; Arginine and proline metabolism; Biological oxidations; Biosynthesis of amino acids; Defective ACY1 causes encephalopathy; Disease; Metabolic disorders of biological oxidation enzymes;

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