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ACY1 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP12050c

Specification

ACY1 Antibody (Center) Blocking peptide - Product Information

Primary Accession Q03154

ACY1 Antibody (Center) Blocking peptide - Additional Information

Gene ID 95

Other Names
Aminoacylase-1, ACY-1, N-acyl-L-amino-acid amidohydrolase, ACY1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ACY1 Antibody (Center) Blocking peptide - Protein Information

Name ACY1

Function
Catalyzes the hydrolysis of N-acetylated amino acids to acetate and free amino acids.

Cellular Location
Cytoplasm.

Tissue Location
Expression is highest in kidney, strong in brain and weaker in placenta and spleen.

ACY1 Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

ACY1 Antibody (Center) Blocking peptide - Images

ACY1 Antibody (Center) Blocking peptide - Background

This gene encodes a cytosolic, homodimeric, zinc-bindingenzyme that catalyzes the hydrolysis of acylated L-amino acids toL-amino acids and an acyl group, and has been postulated tofunction in the catabolism and salvage of acylated amino acids.This gene is located on chromosome 3p21.1, a region reduced tohomozygosity in small-cell lung cancer (SCLC), and its expressionhas been reported to be reduced or undetectable in SCLC cell linesand tumors. The amino acid sequence of human aminoacylase-1 ishighly homologous to the porcine counterpart, and this enzyme isthe first member of a new family of zinc-binding enzymes. Mutationsin this gene cause aminoacylase-1 deficiency, a metabolic disordercharacterized by central nervous system defects and increasedurinary excretion of N-acetylated amino acids. Alternative splicingof this gene results in multiple transcript variants. Read-throughtranscription also exists between this gene and the upstreamABHD14A (abhydrolase domain containing 14A) gene, as represented inGeneID:100526760. A related pseudogene has been identified onchromosome 18.

ACY1 Antibody (Center) Blocking peptide - References

Tylki-Szymanska, A., et al. J. Inherit. Metab. Dis. (2010) In press :Lindner, H.A., et al. Biochemistry 47(14):4266-4275(2008)Sass, J.O., et al. Neurology 68(24):2151-2153(2007)Sass, J.O., et al. Am. J. Hum. Genet. 78(3):401-409(2006)Van Coster, R.N., et al. Biochem. Biophys. Res. Commun. 338(3):1322-1326(2005)