

OriGene Technologies, Inc.

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Product datasheet for TA503228AM

Aminoacylase 1 (ACY1) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI16C1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI16C1
Applications:	FC, IHC, WB
Recommended Dilution:	WB 1:500, IHC 1:150, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human ACY1(NP_000657) produced in HEK293 cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Biotin
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	45.7 kDa
Gene Name:	aminoacylase 1
Database Link:	<u>NP_000657</u> <u>Entrez Gene 109652 MouseEntrez Gene 300981 RatEntrez Gene 95 Human</u> <u>Q03154</u>



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Aminoacylase 1 (ACY1) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI16C1] – TA503228AM

Background: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 GeneID:100526760. A related
pseudogene has been identified on chromosome 18. [provided by RefSeq]

Synonyms: ACY-1; ACY1D; HEL-S-5

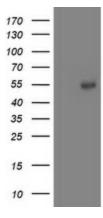
Protease

Protein Families:

Protein Pathways:

Arginine and proline metabolism, Metabolic pathways

Product images:



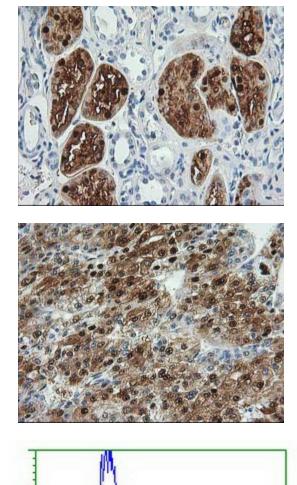
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ACY1 ([RC201284], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ACY1. Positive lysates [LY424578] (100ug) and [LC424578] (20ug) can be purchased separately from OriGene.

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Events

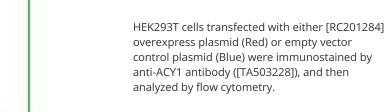
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ACY1

Immunohistochemical staining of paraffinembedded Human Kidney tissue within the normal limits using anti-ACY1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503228])

Immunohistochemical staining of paraffinembedded Carcinoma of Human liver tissue using anti-ACY1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503228])



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