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# Product datasheet for TA503226

## Aminoacylase 1 (ACY1) Mouse Monoclonal Antibody [Clone ID: OTI1A12]

## **Product data:**

Product Type:	Primary Antibodies
Clone Name:	OTI1A12
Applications:	FC, IHC, WB
<b>Recommend Dilution:</b>	WB 1:500~2000, IHC 1:150, FLOW 1:100
Reactivity:	Human, Mouse, Rat, Dog
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:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Predicted Protein Size:	45.7 kDa
Gene Name:	aminoacylase 1
Database Link:	<u>NP_000657 Entrez Gene 109652 MouseEntrez Gene 300981 RatEntrez Gene 476602</u> <u>DogEntrez Gene 95 Human</u>



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#### **GRIGENE** Aminoacylase 1 (ACY1) Mouse Monoclonal Antibody [Clone ID: OTI1A12] – TA503226

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

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

Protein Families:

Protein Pathways:

Protease 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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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, TA503226)

Immunohistochemical staining of paraffinembedded Human liver 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, TA503226)

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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, TA503226)



HEK293T cells transfected with either [RC201284] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-ACY1 antibody (TA503226), and then analyzed by flow cytometry.

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