

Product datasheet for TA503213AM

OriGene Technologies, Inc.

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Aminoacylase 1 (ACY1) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI2F1]

Product data:

Product Type: Primary Antibodies

Clone Name: OTI2F1

Applications: FC, IHC, WB

Recommended Dilution: WB 1:500~2000, IHC 1:150, FLOW 1:100

Reactivity: Human, Dog, Monkey, Mouse, Rat

Host: Mouse Isotype: IgG1

Clonality: Monoclonal

Immunogen: Full length human recombinant protein of human ACY1(NP_000657) produced in HEK293T

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:** NP 000657

Entrez Gene 109652 MouseEntrez Gene 300981 RatEntrez Gene 476602 DogEntrez Gene

698851 MonkeyEntrez Gene 95 Human

Q03154



Aminoacylase 1 (ACY1) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI2F1] – TA503213AM

Background:

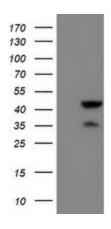
This gene encodes a cytosolic, homodimeric, zinc-binding enzyme that catalyzes the hydrolysis of acylated L-amino acids to L-amino acids and an acyl group, and has been postulated to function in the catabolism and salvage of acylated amino acids. This gene is located on chromosome 3p21.1, a region reduced 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

Protein Families: Protease

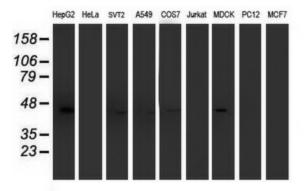
Protein Pathways: Arginine and proline metabolism, Metabolic pathways

Product images:

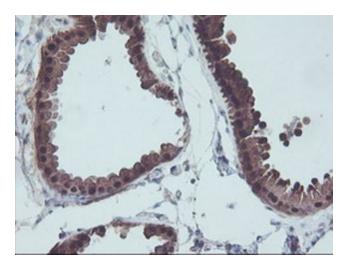


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ACY1 (Cat# [RC201284], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ACY1(Cat# [TA503213]). Positive lysates [LY424578] (100ug) and [LC424578] (20ug) can be purchased separately from OriGene.

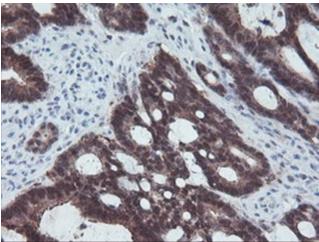




Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-ACY1 monoclonal antibody.

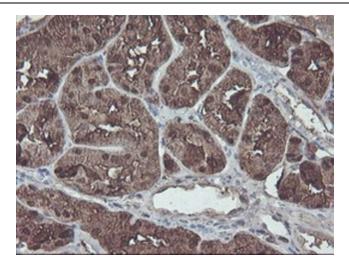


Immunohistochemical staining of paraffinembedded Human breast tissue within the normal limits using anti-ACY1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

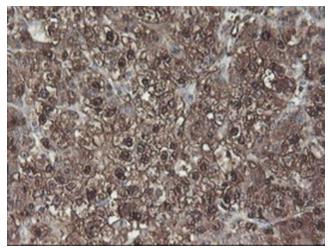


Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human colon tissue using anti-ACY1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

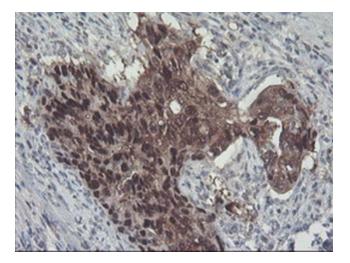




Immunohistochemical staining of paraffinembedded Human Kidney tissue within the normal limits using anti-ACY1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

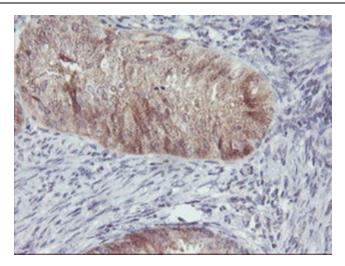


Immunohistochemical staining of paraffinembedded Carcinoma of Human liver tissue using anti-ACY1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

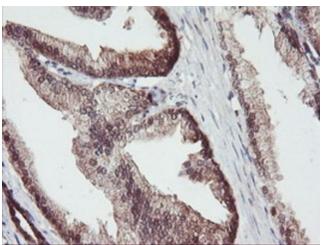


Immunohistochemical staining of paraffinembedded Carcinoma of Human pancreas tissue using anti-ACY1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

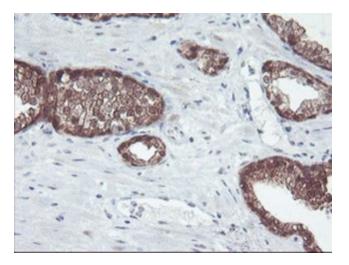




Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human endometrium tissue using anti-ACY1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

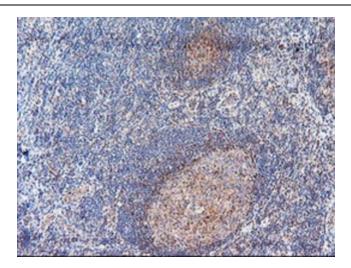


Immunohistochemical staining of paraffinembedded Human prostate tissue within the normal limits using anti-ACY1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

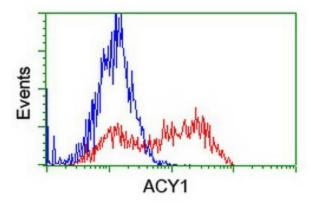


Immunohistochemical staining of paraffinembedded Carcinoma of Human prostate tissue using anti-ACY1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.





Immunohistochemical staining of paraffinembedded Human tonsil within the normal limits using anti-ACY1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



HEK293T cells transfected with either [RC201284] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-ACY1 antibody ([TA503213]), and then analyzed by flow cytometry.