

Mouse anti-Human ACY1 Monoclonal Antibody | anti-ACY1 antibody

ACY1 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48147	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

ACY1; Monoclonal Antibody; ACY1 antibody; Aminoacylase 1; ACY1D; ACYLASE; anti-ACY1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	AT1E2
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	408
Applicable Applications for anti-ACY1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human ACY1 (1-408aa) purified from E. coli
Clone Note	Anti-human ACY1 mAb, clone AT1E2, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human ACY1 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of ACY1 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ACY1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

Fig 1.: The cell lysates of Jurkat, HepG2, HeLa, A549 (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ACY1 antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Fig. 2: The Recombinant Human ACY1 (50ng) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ACY1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

ADDITIONAL INFORMATION

Related Product Information for anti-ACY1 antibody	Aminoacylase-1, also designated N-acyl-L-amino-acid amidohydrolase or ACY1, is a member of the largest metallopeptidase family called M20A. Aminoacylase-1 is a zinc-binding homodimeric enzyme expressed in kidney, brain, placenta and spleen. It is the most abundant of the aminoacylases. Defects in ACY1 are the cause of aminoacylase-1 deficiency (ACY1D). ACY1D results in a metabolic disorder manifesting with encephalopathy, unspecific psychomotor delay, psychomotor delay with atrophy of the vermis and syringomyelia, marked muscular hypotonia or normal clinical features. All affected individuals exhibit markedly increased urinary excretion of several N-acetylated amino acids.
Product Categories/Family for anti-ACY1 antibody	Enzymes & Proteases; Signal Transduction; Metabolism
References	Cook R.M., et al. (1993) J Biol Chem 268 (23): 17010-17017; Lindner H.A., et al. (2003) J Biol Chem 278 (45): 44496-44504

NCBI AND UNIPROT INFORMATION

NCBI GI #	4501901
NCBI GeneID	95
NCBI Accession #	NP_000657
NCBI GenBank Nucleotide #	NM_000666.2
UniProt Accession #	Q03154; C9J6I6; C9J9D8; C9JWD4
Molecular Weight	42,195 Da
NCBI Official Full Name	aminoacylase-1 isoform a
NCBI Official Synonym Full Names	aminoacylase 1
NCBI Official Symbol	ACY1
NCBI Official Synonym Symbols	ACY-1; ACY1D; HEL-S-5
NCBI Protein Information	aminoacylase-1
UniProt Protein Name	Aminoacylase-1
UniProt Gene Name	ACY1
UniProt Synonym Gene Names	ACY-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/acy1-antibody-clone-at1e2-immunofluorescence-immunocytochemistry-flow-cytometry-western-blot-elisa/48147>