Mouse ACY1 Monoclonal Antibody | anti-ACY1 antibody

ACY1 antibody

CATALOG #	HOST	APPLICATIONS
AAA74773	**Mouse**	**Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay**

PRODUCT SYNONYMS

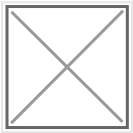
ACY1; Monoclonal Antibody; ACY1 antibody; Monoclonal ACY1; Anti-ACY1; ACY1D; ACYLASE; Aminoacylase 1; ACY 1; ACY-1; anti-ACY1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	1B12
Purity/Purification	ACY1 antibody was purified by affinity chromatography.
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration	500 ug-1 mg/ml (varies by lot)
Sequence Length	408
Applicable Applications for anti-ACY1 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Biological Significance	ACY1 is a cytosolic, homodimeric, zinc-binding enzyme that catalyzes the hydrolysis of acylated L-amino acids to L-amino acids and acyl group, and has been postulated to function in the catabolism and salvage of acylated amino acids. 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. Epileptic seizures are a frequent feature. All affected individuals exhibit markedly increased urin ary excretion of several N-acetylated amino acids.
Cross-Reactivity	Human, Dog, Rat, Mouse
Immunogen	ACY1 antibody was raised in mouse using a full length recombinant protein of human ACY1 (NP_000657) produced in HEk293 cell as the immunogen.
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

IMAGES

IHC (Immunohiostchemistry)
Immunohistochemical analysis of ACY1 protein in paraffin embedded Human liver tissue using ACY1 antibody



WB (Western Blot)
Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant ACY1 protein (Right) or empty vector (Left) detected with ACY1 antibody

ADDITIONAL INFORMATION

Related Product Information for anti-ACY1 antibody	Mouse monoclonal ACY1 antibody
Product Categories/Family for anti-ACY1 antibody	Proteases; Inhibitors; & Enzymes

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
UniProt Entry Name	ACY1_HUMAN

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-1b12-western-blot-immunohistochemistry-flow-cytometry-elisa/74773