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Product datasheet for AM50353PU-S

Aminoacylase 1 (ACY1) Mouse Monoclonal Antibody [Clone ID: AT1E2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	AT1E2
Applications:	ELISA, WB
Recommended Dilution:	The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended starting dilution is 1:1000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Recombinant human ACY1 (1-408aa) purified from E. coli.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	aminoacylase 1
Database Link:	Entrez Gene 95 Human Q03154

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Background: 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.

Synonyms: ACY-1

Protein Families: Protease

Protein Pathways: Arginine and proline metabolism, Metabolic pathways

Product images:

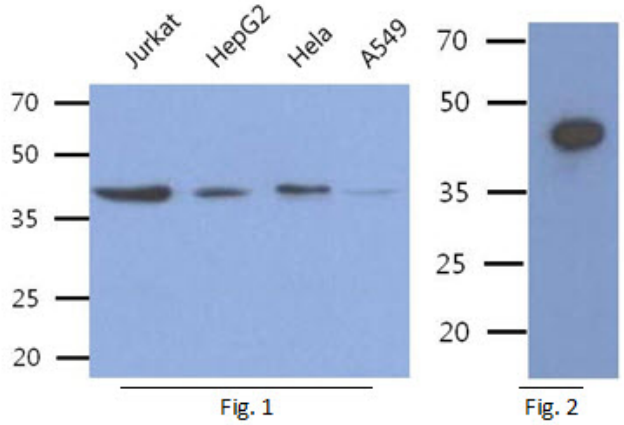

Fig 1.: The cell lysates of Jurkat, HepG2, Hela, A549 (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ACY1 antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Fig. 2: The Recombinant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