

Anti-Aminoacylase 1 Antibody (5J317)

Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	5J317
Purification:	Protein A

Applications

	Anti-ACY1 mouse monoclonal antibody at 1:500 dilution. -Lane A: K562 Whole Cell lysate. -Lysates/proteins at 30 µg per lane. -Secondary
Verified Activity:	-Goat Anti-Mouse IgG H&L (Dylight800) at 1/15000 dilution. -Developed using the Odyssey technique. -Performed under reducing conditions. -Predicted band size:50 kDa. -Observed band size:45 kDa
Application:	ELISA,WB
Recommended	WB: 1:500-1:1000; ELISA: 1:5000-1:10000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human ACY1 protein (TMPY-01058)
Antigen Species:	Human
Synonyms:	ACY-1;ACY1D;aminoacylase 1;HEL-S-5

Research Background

Aminoacylase 1 (ACY1), a metalloenzyme that removes amide-linked ACY1 groups from amino acids and may play a role in regulating responses to oxidative stress. Both the C-terminal fragment found in the two-hybrid screen and full-length ACY1 co-immunoprecipitate with SphK1. Though both C-terminal and full-length proteins slightly reduce SphK1 activity measured in vitro, the C-terminal fragment inhibits while full-length ACY1 potentiates the effects of SphK1 on proliferation and apoptosis. It suggested that ACY1 physically interacts with SphK1 and may influence its physiological functions. As a homodimeric zinc-binding enzyme, Aminoacylase 1 catalyzes the hydrolysis of N alpha-acylated amino acids. Deficiency of Aminoacylase 1 due to mutations in the Aminoacylase 1 (ACY1) gene follows an autosomal-recessive trait of inheritance and is characterized by accumulation of N-acetyl amino acids in the urine.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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