

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects human Aminoacylase/ACY1 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human ACY1 is observed.
Source	Monoclonal Rat IgG _{2B} Clone # 475730
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Aminoacylase/ACY1 Met1-Ser408 Accession # NP_079647
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Aminoacylase 1 (ACY1) is an intracellular soluble homodimeric zinc-binding enzyme. It is involved in the breakdown of acetylated amino acids generated during protein degradation by catalyzing the formation of free aliphatic amino acids from N-acetylated precursors. This enzyme is evolutionarily conserved between mouse and human. Mutations in the human ACY1 gene might cause inborn metabolic disorders. The amino acid sequence of mouse ACY1 is 93% and 85% identical to that of rat and human/chimpanzee.

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