

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Aminoacylase/ACY1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 50% cross-reactivity with recombinant human Aminoacylase/ACY1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Aminoacylase/ACY1 Met1-Ser408 Accession # NP_079647
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Mouse Aminoacylase/ACY1 (Catalog # 2700-ZN)
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Mouse Aminoacylase/ACY1 (Catalog # 2700-ZN), see our available Western blot detection antibodies

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

The mouse ACY1 gene encodes aminoacylase, a member of the M20 family of metalloproteases (1). ACY1 plays a general role in the cytosolic breakdown of acetylated amino acids generated during protein degradation. It also interacts with sphingosine kinase type 1, which is involved in promoting cell growth and inhibiting apoptosis of tumor cells (2). The full-length protein is expressed and the purified enzyme is active in the assay.

References:

1. Lindner, H.A. *et al.* (2003) *J. Biol. Chem.* **278**:44496.
2. Maceyka, M. *et al.* (2004) *FEBS Lett.* **568**:30.