Human Aminoacylase/ACY1 Antibody

Monoclonal Rat IgG_{2B} Clone # 475626

Catalog Number: MAB2900

DESCRIPTION

Species Reactivity	Human
Specificity	Detects recombinant human Aminoacylase/ACY1 in direct ELISAs and Western blots. In Western blots, approximately 50% cross-reactivity with recombinant mouse ACY1 is observed.
Source	Monoclonal Rat IgG_{2B} Clone # 475626
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*S. frugiperda* insect ovarian cell line *Sf* 21-derived recombinant human Aminoacylase/ACY1 Thr2-Ser408 Accession # Q03154
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 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	1 µg/mL	Recombinant Human Aminoacylase/ACY1 (Catalog # 2900-ZN)
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human Aminoacylase/ACY1 (Catalog # 2900-ZN), see our available Western blot detection antibodies

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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.** ● 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 human 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 as described in Activity Assay Protocol.

References:

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