Mouse ASAHL/N-acylethanolamine-hydrolyzing Acid A Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF4886

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse ASAHL/N-acylethanolamine-hydrolyzing Acid A in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant human (rh) ASAHL is observed and less than 5% cross-reactivity rhASAHL-2 and recombinant mouse ASAHL-2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse ASAHL/N−acylethanolamine-hydrolyzing Acid A Val33-Ser362 Accession # AAH04572
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.

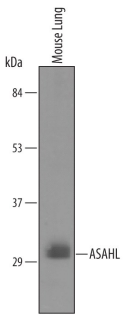
APPLICATIONS

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	See Below
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Mouse N-acylethanolamine-hydrolyzing Acid Amidase/ASAHL (Catalog # 4886-AH), see our available Western blot detection antibodies

DATA

Western Blot



Detection of Mouse N-acylethanolamine-hydrolyzing Acid Amidase/ASAHL by Western Blot. Western blot shows lysates of mouse lung tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Mouse N-acylethanolamine-hydrolyzing Acid Amidase/ASAHL Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4886) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for N-acylethanolamine-hydrolyzing Acid Amidase/ASAHL at approximately 30 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

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.** ● 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 ASAHL gene encodes N-acylethanolamine-hydrolyzing Acid Amidase (NAAA), a fatty acid amidase with maximal activity at acidic pH (1). NAAA hydrolyzes a number of *N*-acyl ethanolamines, including *N*-myristoyl-, *N*-stearoyl-, *N*-oleoyl-, and *N*-arachidonoyl, but is most active against *N*-palmitoylethanolamine (2). NAAA is a member of the choloylglycine hydrolase family of enzymes, and is structurally similar to acid ceramidase (1). NAAA is both a lysosomal and a secreted enzyme, and like acid ceramidase, has been observed to be proteolytically processed during maturation (1). Through its amidase activity, ASAHL may play a role in the termination of the actions of a variety of N-acylethanolamides (3). NAAA can be distinguished from anandamide amidohydrolase by its lack of inhibition by methyl arachidonoyl fluorophosphonate (2).

References:

1. Tsuboi, K. *et al.* (2005) J. Biol. Chem. **280**:11082.
2. Ueda, N. *et al.* (2001) J. Biol. Chem. **276**:35552.
3. Sun, Y. X. *et al.* (2005) Biochim. Biophys. Acta **1736**:211.

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