



Biotinylated Anti-human AS AHL Antibody

ORDERING INFORMATION

Catalog Number: BAF4494

Lot Number: CAXH01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: human AS AHL

Immunogen: CHO cell-derived rhAS AHL isoform 1 (aa 29 - 359)

Ig Type: goat IgG

Application: Western blot

Background

AS AHL (N-acylsphingosine-amidohydrolase-like; N-acylethanolamine-hydrolyzine acid amidase; also acid ceramidase-like protein) is a 30 kDa member of the acid ceramidase family. It is a secreted lysosomal glycoprotein that cleaves fatty acid amides such as palmitoylethanolamine. Human AS AHL is synthesized as a 359 amino acid (aa) preproprecursor that contains a 28 aa signal sequence, a 96 aa prosegment, and a 30 - 31 kDa, 235 aa mature region that begins at Cys125. Multiple isoforms likely exist. One isoform shows a deletion of aa 324 - 359, while another has a two aa substitution for aa 198 - 359. The human proform (aa 29 - 359) is 78% aa identical to mouse AS AHL proform.

Preparation

Produced in goats immunized with purified, CHO cell-derived, recombinant human AS AHL isoform 1 (rhAS AHL; aa 29 - 359; Accession # Q02083, with a Val151Ile substitution; R&D Systems, Catalog # 4494-AH). Human AS AHL specific IgG was purified by human AS AHL affinity chromatography and then biotinylated.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

Reconstitution

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for use as a detection antibody in human AS AHL Western blots.

Application

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human AS AHL. The detection limit for rhAS AHL is approximately 20 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows approximately 25% cross-reactivity with rmAS AHL.

Optimal dilutions should be determined by each laboratory for each application.