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Datasheet for ABIN4996875

anti-ASAH1 antibody (AA 301-395) (Alexa Fluor 680)

Overview

Quantity:	100 µL
Target:	ASAH1
Binding Specificity:	AA 301-395
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ASAH1 antibody is conjugated to Alexa Fluor 680
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Acid ceramidase subunit beta
Isotype:	IgG
Cross-Reactivity:	Mouse
Predicted Reactivity:	Human,Rat,Dog,Cow,Sheep,Pig,Horse,Chicken
Purification:	Purified by Protein A.

Target Details

Target:	ASAH1
Alternative Name:	ASAH1 (ASAH1 Products)

Target Details

Background: Synonyms: AC, ACDase, Acid CDase, Acid ceramidase, Acid ceramidase precursor, Acid ceramidase subunit beta, Acylsphingosine deacylase, ASAH 1, ASAH, ASAH1, ASAH1_HUMAN, FLJ21558, FLJ22079, N acylsphingosine amidohydrolase acid ceramidase 1, N acylsphingosine amidohydrolase 1, N acylsphingosine amidohydrolase, N-acylsphingosine amidohydrolase, PHP, PHP32, Putative 32 kDa heart protein.

Background: Acid ceramidase catalyzes the degradation of ceramide in normal tissues, and deficiency leads to accumulation of ceramide in tissues, a hallmark of Farber disease. Affected individuals experience early onset joint problems and neurological problems, owing to mutations in the acid ceramidase gene. Bioinformatic analysis of gene expression also reveals acid ceramidase to be among the 5 most important genes associated with melanoma. In addition to ceramide hydrolysis, purified acid ceramidase also exhibits the ability to catalyze ceramide synthesis, utilizing [¹⁴C]lauric acid and sphingosine as substrates. Interestingly, pH regulates which reaction is favored, for hydrolysis the pH optimum is 4.5, whereas for the reverse reaction favors a pH of 5.5, further supporting a complex and central role for acid ceramidase in sphingolipid metabolism.

Gene ID: 427

Application Details

Application Notes: IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Handling

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months