

For Research Use Only

ASAH1 Polyclonal antibody

Catalog Number: 11274-1-AP

11 Publications



Basic Information

Catalog Number:

11274-1-AP

Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1799

GenBank Accession Number:

BC016828

GeneID (NCBI):

427

UNIPROT ID:

Q13510

Full Name:

N-acylsphingosine amidohydrolase (acid ceramidase) 1

Calculated MW:

44 kDa

Observed MW:

37-40 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : SH-SY5Y cells, SW480 cells, T-47D cells

IHC : human lung cancer tissue, human breast cancer tissue, mouse brain tissue

IF/ICC : SH-SY5Y cells,

Background Information

ASAH1, also named as AC, ACDase, Acid CDase, PHP32 and ASAH, belongs to the acid ceramidase family. ASAH1 is a lipid hydrolase that catalyzes the conversion of ceramide (cer) into sphingosine (SPH) and a free fatty acid. Mutation of ASAH1 will cause the Farber lipogranulomatosis (FL) which also known as Farber disease (FD). The predicted molecular weight of ASAH1 is 45 kDa. ASAH1 is a glycoprotein processed from a 55-60 kDa precursor via autoproteolytic cleavage into a mature heterodimeric enzyme formed by an α -subunit (13 kDa) and a β -subunit (37-40 kDa) (PMID: 22261821).

Notable Publications

Author	Pubmed ID	Journal	Application
Yu-Ting Su	31547176	Int J Mol Sci	WB
Sebastian Boland	36207292	Nat Commun	WB
Judith Lang	32165633	Nat Commun	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

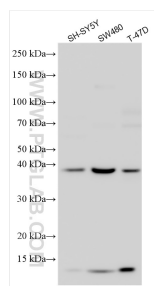
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

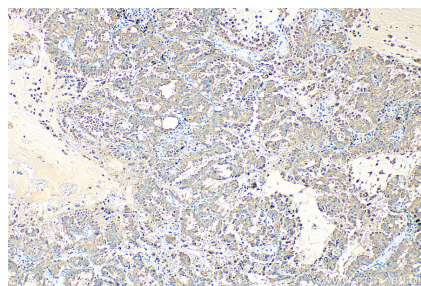
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

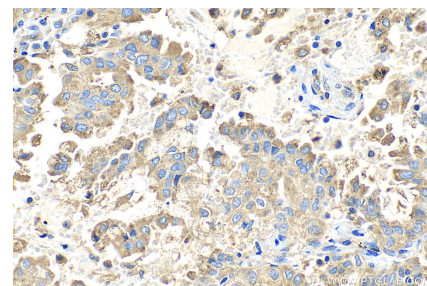
Selected Validation Data



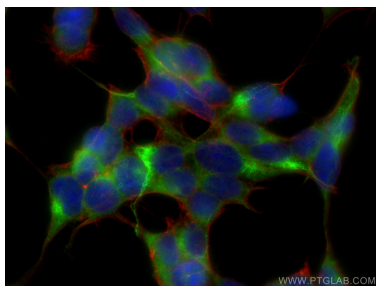
Various lysates were subjected to SDS PAGE followed by western blot with 11274-1-AP (ASAH1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 11274-1-AP (ASAH1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 11274-1-AP (ASAH1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using ASAH1 antibody (11274-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).