

For Research Use Only

ASAH1 Polyclonal antibody

Catalog Number: 11274-1-AP **10 Publications**



Basic Information

Catalog Number: 11274-1-AP	GenBank Accession Number: BC016828	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 427	Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	UNIPROT ID: Q13510	
Isotype: IgG	Full Name: N-acylsphingosine amidohydrolase (acid ceramidase) 1	
Immunogen Catalog Number: AG1799	Calculated MW: 44 kDa	
	Observed MW: 37-40 kDa	

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

IF, IHC, WB

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 : 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**

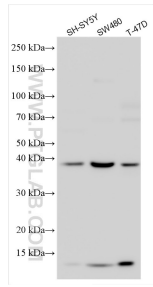
For technical support and original validation data for this product please contact:

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

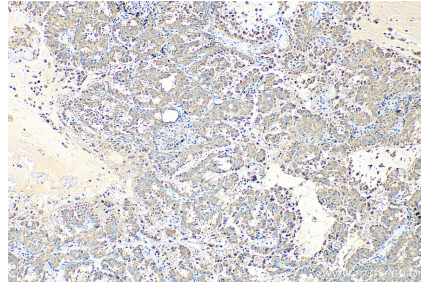
E: proteintech@ptglab.com
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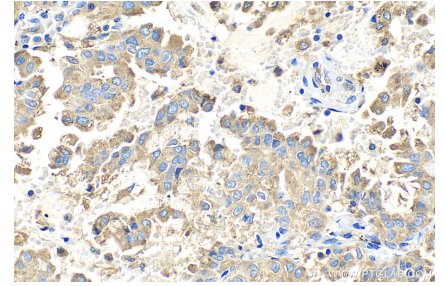
Selected Validation Data



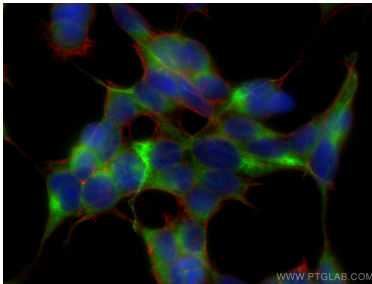
Various lysates were subjected to SDS PAGE followed by western blot with 11274-1-AP (ASAH1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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 AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).