

# ASAH1 Polyclonal antibody

Catalog Number: 11274-1-AP

11 Publications

## Basic Information

## Catalog Number:

11274-1-AP

## Size:

500 ug/ml

## 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  $\alpha$ -subunit (13 kDa) and a  $\beta$ -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

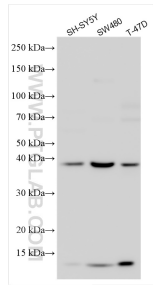
For technical support and original validation data for this product please contact:

T: 4006900926

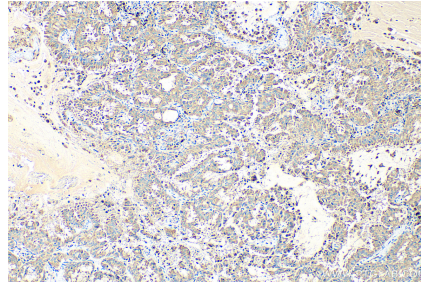
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

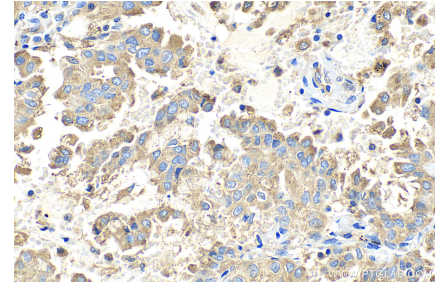
## Selected Validation Data



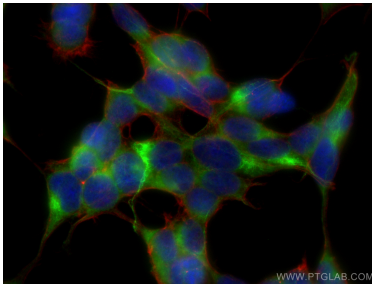
Various lysates were subjected to SDS PAGE followed by western blot with 11274-1-AP (ASAH1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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