

For Research Use Only

# ASAH1 Polyclonal antibody

Catalog Number: 11274-1-AP **7 Publications**



## Basic Information

<b>Catalog Number:</b> 11274-1-AP	<b>GenBank Accession Number:</b> BC016828	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 700 µg/ml by Nanodrop and 150 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 427	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:200-1:1000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> N-acylsphingosine amidohydrolase (acid ceramidase) 1	<b>IHC 1:20-1:200</b> <b>IF 1:10-1:100</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 44 kDa	
<b>Immunogen Catalog Number:</b> AG1799	<b>Observed MW:</b> 55-60 kDa	

## Applications

### Tested Applications:

IF, IHC, IP, WB, ELISA

### Cited Applications:

IHC, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

**WB :** SH-SY5Y cells, human lung tissue, mouse brain tissue, mouse heart tissue, rat lung tissue, rat brain tissue

**IP :** mouse brain tissue,

**IHC :** human breast cancer tissue,

**IF :** SH-SY5Y cells,

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

## 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). ASAH1 is highly expressed in Heart. The predicted molecular weight of ASAH1 is 45 kDa. And it is first synthesized as an 55-60 kDa precursor and subsequently processed to the mature, heterodimeric enzyme in the endosomes/Lysosomes.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yu-Ting Su	31547176	Int J Mol Sci	WB
Judith Lang	32165633	Nat Commun	WB
Yu-Ting Su	28806500	Anat Rec (Hoboken)	WB,IHC

## 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

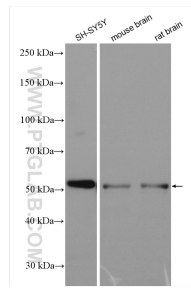
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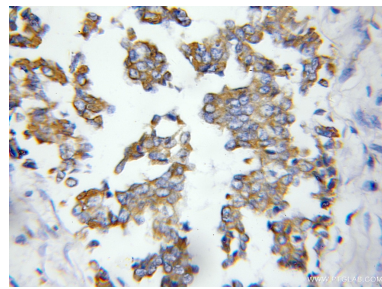
E: proteintech@ptglab.com  
W: ptglab.com

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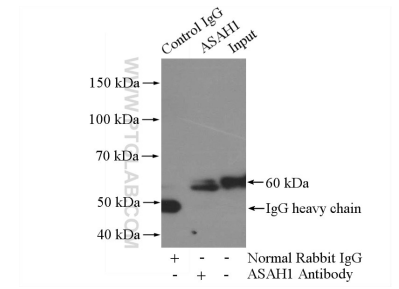
## Selected Validation Data



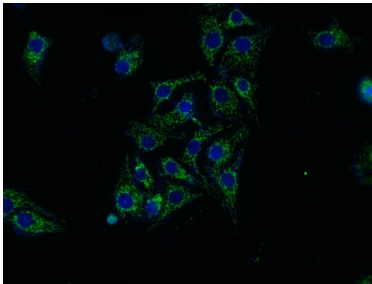
Various lysates were subjected to SDS PAGE followed by western blot with 11274-1-AP (ASA1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer using 11274-1-AP (ASA1 antibody) at dilution of 1:50 (under 40x lens).



IP Result of anti-ASA1 (IP:11274-1-AP, 4ug; Detection:11274-1-AP 1:300) with mouse brain tissue lysate 3200ug.



Immunofluorescent analysis of SH-SY5Y cells using 11274-1-AP (ASA1 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).