

For Research Use Only

# ASAH1 Monoclonal antibody

Catalog Number: 67092-1-Ig

Featured Product

1 Publications



## Basic Information

Catalog Number:

67092-1-Ig

Size:

1219  $\mu$ g/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG28645

GenBank Accession Number:

BC016828

GeneID (NCBI):

427

UNIPROT ID:

Q13510

Full Name:

N-acylsphingosine amidohydrolase  
(acid ceramidase) 1

Calculated MW:

44 kDa

Observed MW:

55 kDa

Purification Method:

Protein A purification

CloneNo.:

1B7E4

Recommended Dilutions:

WB 1:1000-1:8000

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

Tested Applications:

IF/ICC, IHC, WB, ELISA

Cited Applications:

WB, IP, IF

Species Specificity:

Human, Mouse, Rat, Pig

Cited Species:

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 : rat cerebellum tissue, rat brain tissue, mouse  
brain tissue, pig cerebellum tissue

IHC : human breast cancer 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). ASAH1 is highly expressed in heart. And it is first synthesized as an 55-60 kDa precursor and subsequently processed to the mature, heterodimeric enzyme (40 + 13 kDa) in the endosomes/lysosomes.

## Notable Publications

Author	Pubmed ID	Journal	Application
Juan Xiao	36068514	Mol Med	WB, IF, IP

## 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:

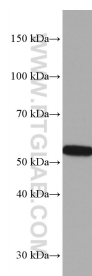
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

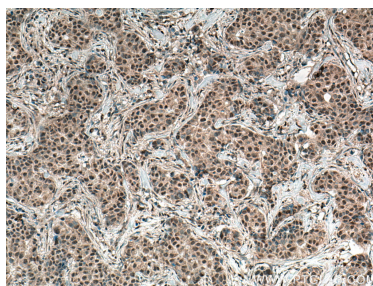
W: [ptgcn.com](http://ptgcn.com)

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

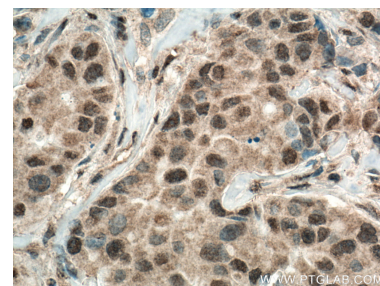
## Selected Validation Data



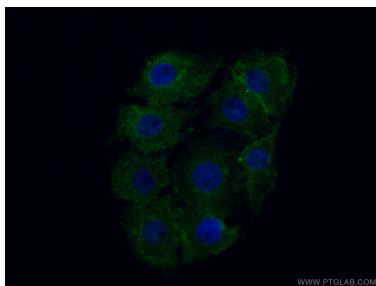
rat cerebellum tissue were subjected to SDS PAGE followed by western blot with 67092-1-Ig (ASAH1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67092-1-Ig (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 breast cancer tissue slide using 67092-1-Ig (ASAH1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using 67092-1-Ig (ASAH1 antibody) at dilution of 1:100 and Coralite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).