

## ASAH1 Polyclonal Antibody

Catalog number: 11274-1-AP

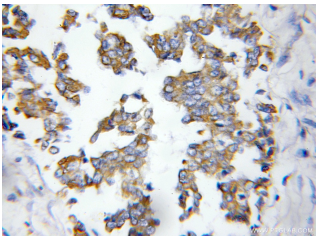
Size: 22 µg/150 µl

Source: Rabbit

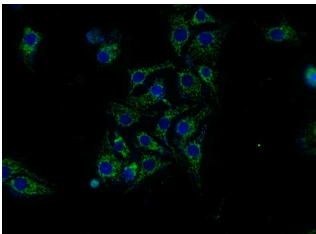
Isotype: IgG

Synonyms:

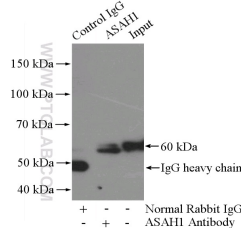
ASAH1; AC, Acid ceramidase,  
Acylsphingosine deacylase,  
ASAH, ASAH1, FLJ21558,  
FLJ22079, HSD 33, PHP, PHP32,  
Putative 32 kDa heart protein



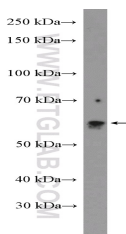
Immunohistochemical of paraffin-embedded human breast cancer using 11274-1-AP (ASAH1 antibody) at dilution of 1:50 (under 40x lens)



Immunofluorescent analysis of SH-SY5Y cells using 11274-1-AP (ASAH1 Antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



IP Result of anti-ASAH1 (IP:11274-1-AP, 4µg; Detection:11274-1-AP 1:300) with mouse brain tissue lysate 3200µg.



### Background

ASAH1, also named as AC, ACDase, Acid CDase, PHP32 and ASAH, belongs to the acid ceramidase family. It is a 32 kDa heart protein. 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.

### Applications

Tested applications:	ELISA, IHC, IF, WB, IP
Cited applications:	WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human
Calculated ASAH1 MW:	44 kDa
Observed ASAH1 MW:	60-65 kDa
Positive WB detected in	Rat lung tissue, human lung tissue, mouse brain tissue, mouse heart tissue, SH-SY5Y cells
Positive IP detected in	Mouse brain tissue
Positive IHC detected in	Human breast cancer tissue
Positive IF detected in	SH-SY5Y cells
Recommended dilution:	WB: 1:200-1:2000 IP: 1:200-1:1000 IHC: 1:20-1:200 IF: 1:10-1:100

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

Immunogen:	Ag1799
GenBank accession number:	BC016828
Gene ID (NCBI):	427
Full name:	N-acylsphingosine amidohydrolase (acid ceramidase) 1

### Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

rat lung tissue were subjected to SDS PAGE followed by western blot with 11274-1-AP( ASAH1 Antibody) at dilution of 1:600