

For Research Use Only

# SGSH Polyclonal antibody

Catalog Number: 14184-1-AP

1 Publications



## Basic Information

<b>Catalog Number:</b> 14184-1-AP	<b>GenBank Accession Number:</b> BC047318	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 400 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 6448	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P51688	
<b>Isotype:</b> IgG	<b>Full Name:</b> N-sulphoglucosamine sulfohydrolase	
<b>Immunogen Catalog Number:</b> AG5435	<b>Calculated MW:</b> 57 kDa	
	<b>Observed MW:</b> 56 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : HEK-293 cells, Transfected
<b>Cited Applications:</b> WB, IF	<b>IHC :</b> human pancreas cancer tissue, human liver cancer tissue
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

SGSH(N-sulphoglucosamine sulphohydrolase) is also named as HSS, sulphamidase and belongs to the sulfatase family. Sulfamidase is synthesized as a 62 kDa precursor protein, which is modified with mannose 6-phosphate (M6P) residues, allowing their recognition by mannose-6-phosphate receptors in the Golgi complex and ensuring transport to the endosomal/Lysosomal system(PMID:21671382). It catalyzes the third step of degradation of glucosaminoglycans and is required for the degradation of heparan sulphate. Defects in SGSH are the cause of mucopolysaccharidosis type 3A (MPS3A), also known as Sanfilippo syndrome A.

## Notable Publications

Author	Pubmed ID	Journal	Application
Bo Jiang	38354943	Exp Eye Res	WB,IF

## Storage

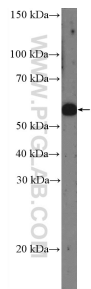
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

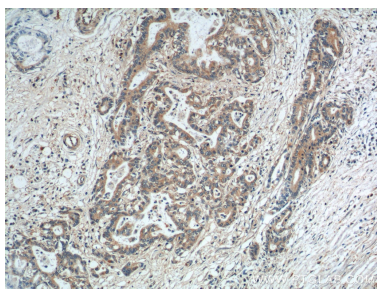
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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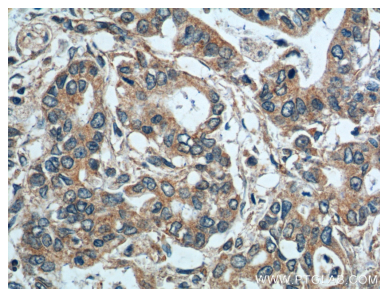
## Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 14184-1-AP (SGSH Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 14184-1-AP (SGSH Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 14184-1-AP (SGSH Antibody) at dilution of 1:200 (under 40x lens).