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SGSH Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50865

Specification

SGSH Antibody - Product Information

Application	**WB, IHC-P, IHC-F, IF, ICC, E**
Primary Accession	P51688
Reactivity	**Human, Mouse, Rat, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**55 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human Sulphamidase**
Epitope Specificity	**301-388/502**
Isotype	**IgG**
Purity	
affinity purified by Protein A	
Buffer	**0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.**
SUBCELLULAR LOCATION	**Lysosome.**
SIMILARITY	**Belongs to the sulfatase family.**
Post-translational modifications	**The conversion to 3-oxoalanine (also known as C-formylglycine, FGly), of a serine or cysteine residue in prokaryotes and of a cysteine residue in eukaryotes, is critical for catalytic activity.**
DISEASE	**Defects in SGSH are the cause of mucopolysaccharidosis type 3A (MPS3A) [MIM:252900]; also known as Sanfilippo syndrome A. MPS3A is a severe form of mucopolysaccharidosis type 3, an autosomal recessive lysosomal storage disease due to impaired degradation of heparan sulfate. MPS3 is characterized by severe central nervous system degeneration, but only mild somatic disease. Onset of clinical features usually occurs between 2 and 6 years; severe neurologic degeneration occurs in most patients between 6 and 10 years of age, and death occurs typically during the second or third decade of life. MPS3A is characterized by earlier onset, rapid progression of symptoms and shorter survival.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
Sulfatases are enzymes that hydrolyse a diverse range of sulfate esters. Deficiency of lysosomal sulfatases leads to human diseases characterized by the accumulation of either GAGs (glycosaminoglycans) or sulfolipids. Sulfamidase, also known as HSS, SFMD, MPS3A or SGSH, is a 502 amino acid lysosome that belongs to the sulfatase family. It has been suggested that sulfamidase may be involved in the lysosomal degradation of heparan sulfate. Defects in the gene encoding sulfamidase are the cause of Sanfilippo syndrome A, an autosomal recessive lysosomal storage disease caused by impaired degradation of heparan sulfate. Sanfilippo syndrome A is characterized by severe central nervous system degeneration but relatively mild somatic manifestations.

Antigen Region **301-388/502**

SGSH Antibody - Additional Information

Gene ID 6448

Other Names
N-sulphoglucosamine sulphohydrolase, Sulfoglucosamine sulfamidase, Sulphamidase, SGSH, HSS

Dilution
WB~~1:100~1:500<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

SGSH Antibody - Protein Information

Name SGSH

Synonyms HSS

Function
Catalyzes a step in lysosomal heparan sulfate degradation.

Cellular Location
Lysosome.

SGSH Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides

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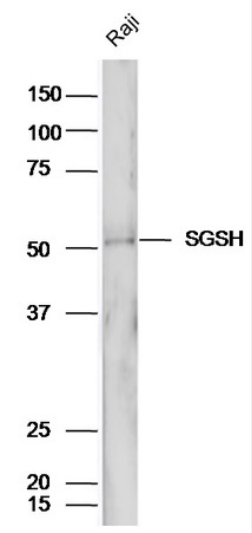
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SGSH Antibody - Images



Raji cell lysates probed with Anti-SGSH/Sulphamidase Polyclonal Antibody, Unconjugated AP50865 at 1:300 in 4˚C. Followed by conjugation to secondary antibody at 1:3000 90min in 37˚C.

SGSH Antibody - References

Scott H.S.,et al.Nat. Genet. 11:465-467(1995).
Karageorgos L.E.,et al.Submitted (NOV-1996) to the EMBL/GenBank/DDBJ databases.
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Zhang H.,et al.Nat. Biotechnol. 21:660-666(2003).
Chen R.,et al.J. Proteome Res. 8:651-661(2009).