Anti-SGSH/HSS Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015192

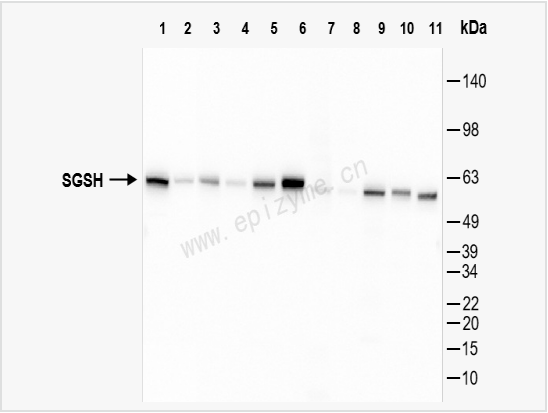
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	11H37N03
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human SGSH
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-SGSH/HSS Rabbit mAb [11H37N03] is for research use only and not for use in diagnostic or therapeutic procedures.

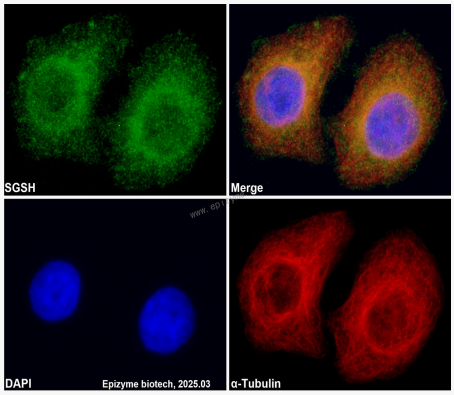
Protein Information

Synonyms	Heparan sulfate sulfatase; Heparan sulphate sulphatase; HSS; MPS 3A; MPS3 A; MPS3A; Mucopolysaccharidosis type IIIA; N sulfoglucosamine sulfohydrolase (sulfamidase); N sulfoglucosamine sulfohydrolase; N-sulphoglucosamine sulphohydrolase; SFMD; SGSH; SPHM_HUMAN; Sulfoglucosamine sulfamidase; Sulphamidase; Sulphoglucosamine sulphamidase.
Calculated MW	Calculated MW: 57 kDa; Observed MW: 57 kDa
Uniprot ID	P51688
Gene ID	6448
Background	This gene encodes the enzyme sulfamidase; one of several enzymes involved in the lysosomal degradation of heparan sulfate. Mutations in this gene are associated with the lysosomal storage disease mucopolysaccaridosis IIIA, also known as Sanfilippo syndrome A, which results from impaired degradation of heparan sulfate. Transcripts of varying sizes have been reported but their biological validity has not been determined. [provided by RefSeq, Jun 2017]
Cellular Location	Lysosome.

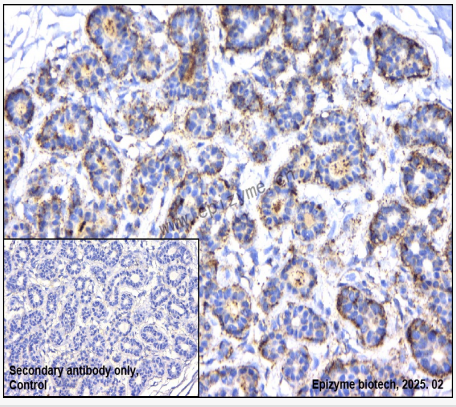
Validation Images



Western Blot - Anti-SGSH/HSS Rabbit mAb [11H37N03]
All lanes: R015192 at 1:1,000 dilution
Lane 1: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 2: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 3: Caco2 (Human colorectal adenocarcinoma epithelial cell) whole cell lysates
Lane 4: Jurkat (Human T lymphocytic leukemia cell) whole cell lysates
Lane 5: 293T (Human embryonic kidney cell) whole cell lysates
Lane 6: SCC-9 (Human tongue squamous carcinoma epithelial cell) whole cell lysates
Lane 7: Mouse heart whole tissue lysates
Lane 8: Mouse brain whole tissue lysates
Lane 9: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 10: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 11: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 57 kDa
Observed band size: 57 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-SGSH/HSS Rabbit mAb [11H37N03]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R015192 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-SGSH/HSS Rabbit mAb [11H37N03]
Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015192 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.