

For Research Use Only

SGSM3 Polyclonal antibody

Catalog Number: 20825-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number:

20825-1-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop and 320 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG14800

GenBank Accession Number:

BC008078

GeneID (NCBI):

27352

UNIPROT ID:

Q96HU1

Full Name:

small G protein signaling modulator 3

Calculated MW:

749 aa, 85 kDa

Observed MW:

85 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse

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: fetal human brain tissue, LO2 cells, mouse brain tissue, mouse testis tissue

IP: mouse brain tissue,

IHC: human heart tissue, human spleen tissue

IF/ICC: HeLa cells,

Background Information

Small G protein signaling modulator 3 (SGSM3) is also named as MAP, RABGAPL and RABGAPL. SGSM3 is highly correlated with Cx43 in heart functions and that high levels of SGSM3 may induce Cx43 turnover through lysosomal degradation in infarcted rat hearts (PMID: 29577900, PMID: 32271805). SGSM3 has been shown to be associated with small G-protein-coupled receptor signaling (PMID: 29693742). Several studies have shown that SGSM3 is associated with the risk of some cancers, including liver, breast, colorectal and bladder cancers (PMID: 32271805).

Notable Publications

Author	Pubmed ID	Journal	Application
Shu Hiragi	36197338	J Cell Biol	WB
Ermes Candiello	27411398	Sci Rep	WB
Yuyi Huang	32410874	Mediators Inflamm	WB

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

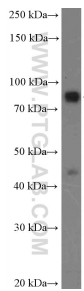
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

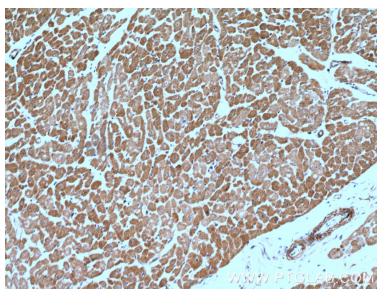
E: proteintech@ptglab.com
W: ptglab.com

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

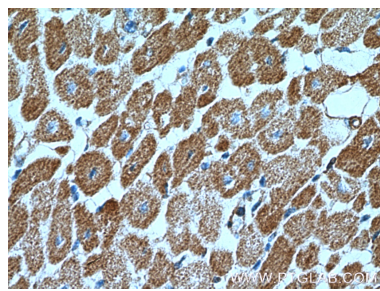
Selected Validation Data



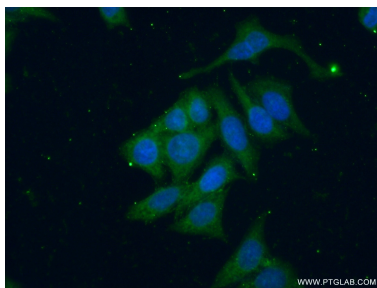
fetal human brain tissue were subjected to SDS PAGE followed by western blot with 20825-1-AP (SGSM3 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



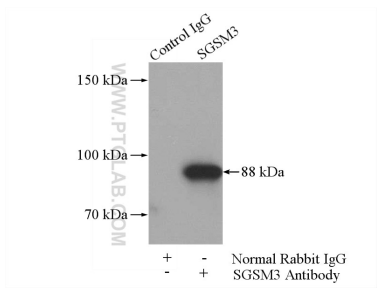
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 20825-1-AP (SGSM3 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 20825-1-AP (SGSM3 Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 20825-1-AP (SGSM3 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).



IP result of anti-SGSM3 (IP:20825-1-AP, 4ug; Detection:20825-1-AP 1:600) with mouse brain tissue lysate 3440ug.