For Research Use Only

STOML2 Monoclonal antibody

Catalog Number:60052-1-Ig Featured Product 8 Publications

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Basic Information

Catalog Number:
60052-1-Ig

Size:
150ul , Concentration: 1600 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2b

Immunogen Catalog Number:
AG0363

GenBank Accession Number:
BC002442

GeneID (NCBI):
30968

UNIPROT ID:
Q9UJZ1

Full Name:
stomatin (EPB72)-like 2

Calculated MW:
356 aa, 39 kDa

Observed MW:
39 kDa

Purification Method:
Protein A purification

CloneNo.:
1A2E9

Recommended Dilutions:
WB 1:5000-1:20000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:500-1:2000
IF/ICC 1:400-1:1600

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, IF, IP

Species Specificity:
human, mouse, rat, pig

Cited Species:
human, 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 : pig brain tissue, HepG2 cells, MCF-7 cells, RAW 264.7 cells

IP : mouse brain tissue,

IHC : human stomach cancer tissue, human endometrial cancer tissue

IF/ICC : A431 cells,

Background Information

Human stomatin (band 7.2b) is a 31-kDa erythrocyte membrane protein of unknown function but implicated in the control of ion channel permeability, mechanoreception, and lipid domain organization. Stomatin (EPB72)-like 2 (STOML2, synonyms: SLP-2, HSPC108) is a 38.5-kDa protein that is overall approximately 20% similar to human stomatin. STOML2 is also present in mature human erythrocytes , but lacks a characteristic NH(2)-terminal hydrophobic domain found in other stomatin homologues. STOML2 may link stomatin or other integral membrane proteins to the peripheral cytoskeleton and thereby play a role in regulating ion channel conductances or the organization of sphingolipid and cholesterol-rich lipid rafts.

Notable Publications

Author	Pubmed ID	Journal	Application
Cheng-Ta Yang	29556045	Cell Death Dis	WB
Jingjing Zhang	30944651	Oncol Lett	IHC
Chongshu Jian	28630166	J Cell Sci	WB

Storage

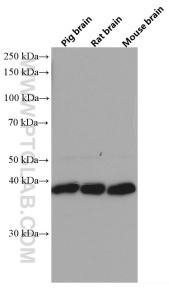
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

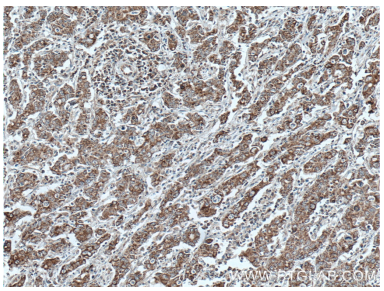
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

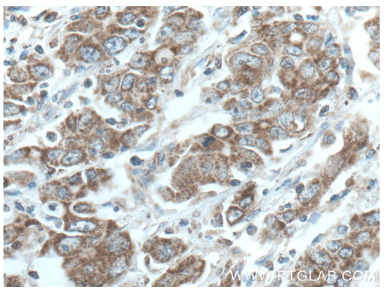
Selected Validation Data



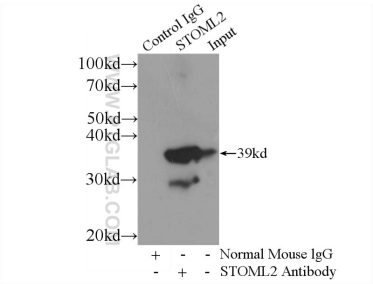
Pig, rat, and mouse brain tissues were subjected to SDS PAGE followed by western blot with 60052-1-Ig (STOML2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



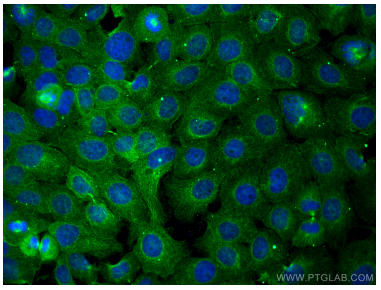
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 60052-1-Ig (STOML2 antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 60052-1-Ig (STOML2 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-STOML2 (IP:60052-1-Ig, 4ug; Detection:60052-1-Ig 1:1000) with mouse brain tissue lysate 4000ug.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using STOML2 antibody (60052-1-Ig, Clone: 1A2E9) at dilution of 1:800 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002).