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

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 IP and 1:500-1:2000 for WB
IHC 1:500-1:2000

Applications

Tested Applications:
IHC, IP, WB, ELISA

Cited Applications:
IF, IHC, IP, WB

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

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)
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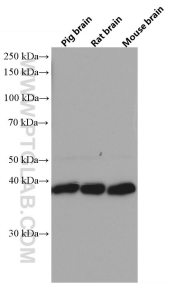
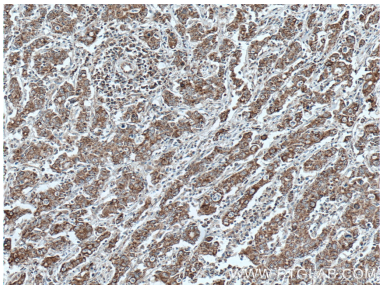
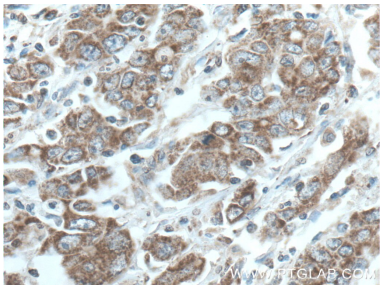
Selected Validation Data



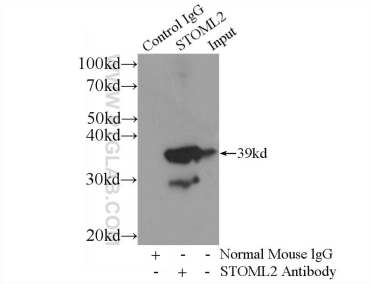
Pig, rat, and mouse brain tissues were subjected to SDS PAGE followed by western blot with 60052-1-Ig (STOML2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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.