

For Research Use Only

# STOML2 Polyclonal antibody

Catalog Number: 10348-1-AP

Featured Product

52 Publications



## Basic Information

### Catalog Number:

10348-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 213 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### 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:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:10000

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

IHC 1:250-1:1000

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### 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**: mouse brain tissue, C6 cells, HEK-293 cells, rat brain tissue

**IP**: mouse brain tissue,

**IHC**: human stomach cancer tissue, human endometrial cancer tissue, human breast cancer tissue, human lung cancer tissue

**IF/ICC**: HeLa cells,

## Background Information

STOML2 (Stomatin-like protein 2; also known as SLP-2) is a widely expressed mitochondrial member of the highly conserved family of stomatin proteins. STOML2 is localized mostly in mitochondrial inner membrane, minor in plasma membrane. Human STOML2 interacts with prohibitins and regulates mitochondrial biogenesis and function (21746876). In addition, plenty of studies revealed that STOML2 was overexpressed in many human cancer tissues, and its expression may be a new valuable prognostic biomarker (19839737, 21960069). Recently STOML2 has been identified as a serological biomarker for early colorectal cancer (CRC) diagnosis (21209152). Two isoforms of STOML2 exist due to the alternative splicing, with MW of 39 kDa and 33 kDa, respectively.

## Notable Publications

Author	Pubmed ID	Journal	Application
Huan Deng	29181097	Oncol Lett	IHC
Yijie Huang	29033585	Onco Targets Ther	IHC
Yueqi Wang	19597348	Cancer Biol Ther	WB,IHC,IF

## 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

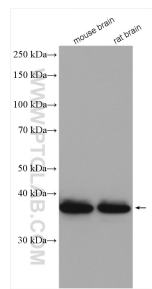
For technical support and original validation data for this product please contact:

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

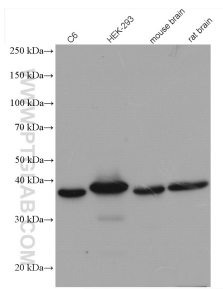
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

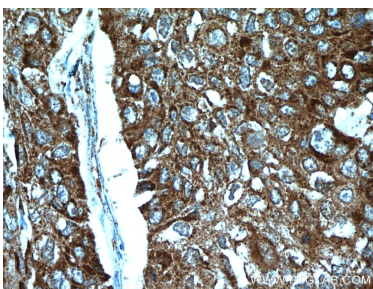
Selected Validation Data



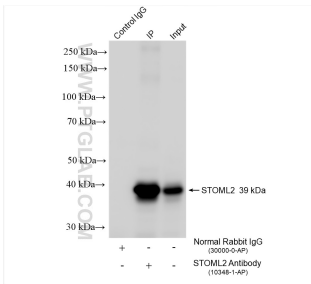
Various lysates were subjected to SDS PAGE followed by western blot with 10348-1-AP (STOML2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



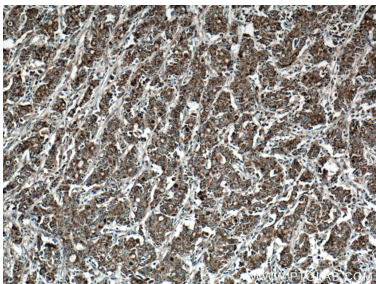
Various lysates were subjected to SDS PAGE followed by western blot with 10348-1-AP (STOML2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



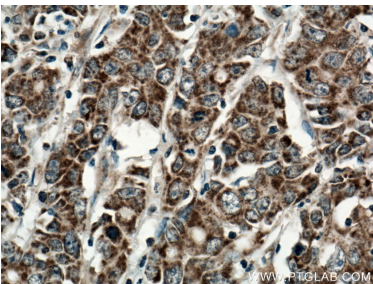
Immunohistochemical analysis of paraffin-embedded human lung cancer using 10348-1-AP (STOML2 antibody) at dilution of 1:100 (under 40x lens).



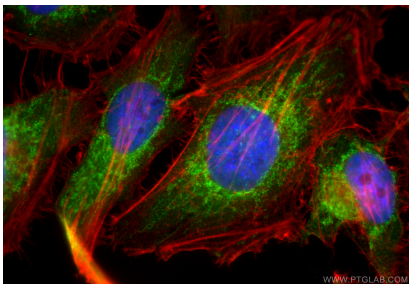
IP result of anti-STOML2 (IP:10348-1-AP, 4ug; Detection:10348-1-AP 1:8000) with mouse brain tissue lysate 1840 ug.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 10348-1-AP (STOML2 antibody) at dilution of 1:500 (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 10348-1-AP (STOML2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using STOML2 antibody (10348-1-AP) at dilution of 1:400 and Multi-Ab CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).