For Research Use Only

# STOML2 Polyclonal antibody

Catalog Number:10348-1-AP Featured Product 48 Publications

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## Basic Information

Catalog Number:
10348-1-AP

Size:
400 μg/ml

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 1:1000-1:6000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200
IF 1:50-1:500

## Applications

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

Cited Applications:
WB, IP, IF, IHC

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

IP : mouse brain tissue,

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

IF : HeLa cells, MCF-7 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

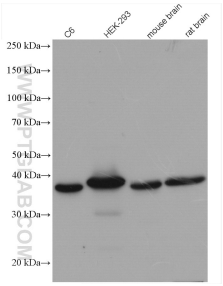
| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Huan Deng | 29181097 | Oncol Lett | IHC |
| Yijie Huang | 29033585 | Onco Targets Ther | IHC |
| Yueqi Wang | 19597348 | Cancer Biol Ther | WB,IHC,IF |

## Storage

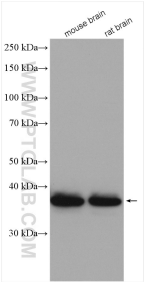
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

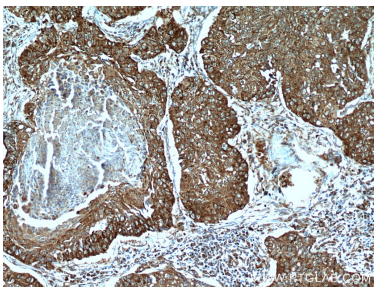
## Selected Validation Data



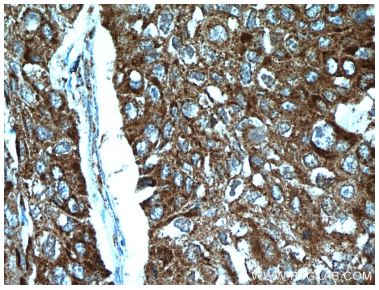

Various lysates were subjected to SDS PAGE followed by western blot with 10348-1-AP (STOML2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



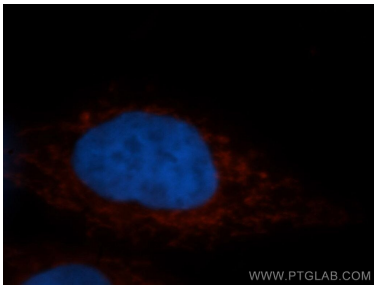

Various lysates were subjected to SDS PAGE followed by western blot with 10348-1-AP (STOML2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



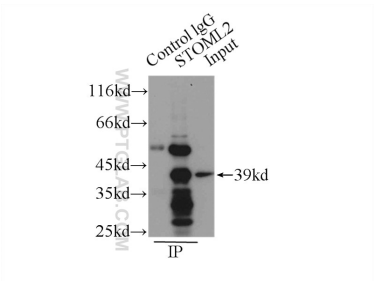
Immunohistochemical analysis of paraffin-embedded human lung cancer using 10348-1-AP (STOML2 antibody) at dilution of 1:100 (under 10x lens).



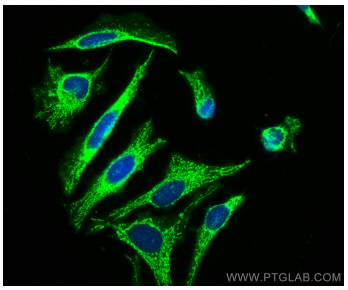
Immunohistochemical analysis of paraffin-embedded human lung cancer using 10348-1-AP (STOML2 antibody) at dilution of 1:100 (under 40x lens).




Immunofluorescent analysis of MCF-7 cells, using STOML2 antibody 10348-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).




IP result of anti-STOML2 (IP:10348-1-AP, 3ug; Detection:10348-1-AP 1:1000) with mouse brain tissue lysate 1000ug.




Immunofluorescent analysis of (4% PFA) fixed HeLa cells using STOML2 antibody (10348-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).