

For Research Use Only

STOML2 Polyclonal antibody

Catalog Number: 10348-1-AP

Featured Product

48 Publications



Basic Information

Catalog Number: 10348-1-AP	GenBank Accession Number: BC002442	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 400 µg/ml by Nanodrop and 213 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 30968	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
Source: Rabbit	Full Name: stomatin (EPB72)-like 2	
Isotype: IgG	Calculated MW: 356 aa, 39 kDa	
Immunogen Catalog Number: AG0363	Observed MW: 39 kDa	

Applications

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

Cited Applications:
IF, IHC, IP, WB

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

*** 20ul sizes contain 0.1% BSA

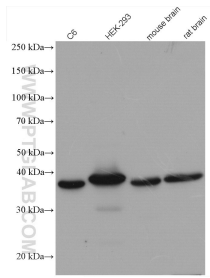
For technical support and original validation data for this product please contact:

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

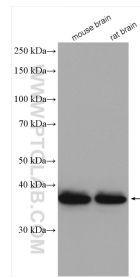
E: proteintech@ptglab.com
W: ptglab.com

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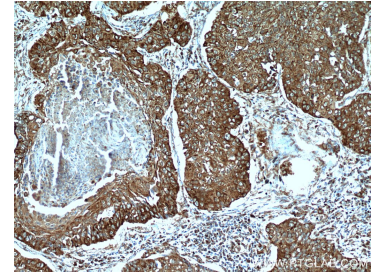
Selected Validation Data



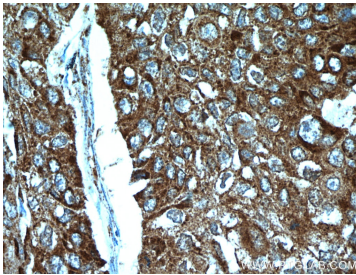
Various lysates were subjected to SDS PAGE followed by western blot with 10348-1-AP (STOML2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



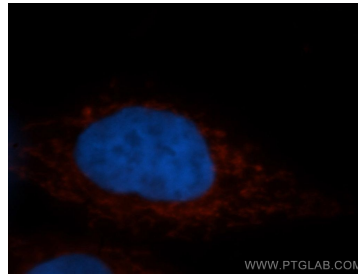
Various lysates were subjected to SDS PAGE followed by western blot with 10348-1-AP (STOML2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



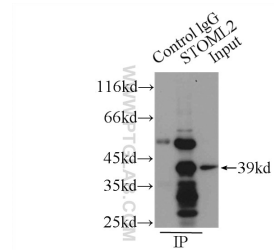
Immunohistochemical analysis of paraffin-embedded human lung cancer using 10348-1-AP (STOML2 antibody) at dilution of 1:100 (under 10x lens).



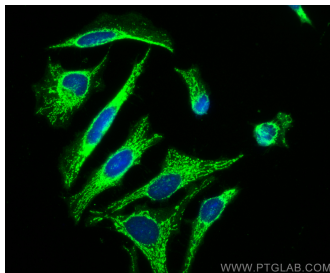
Immunohistochemical analysis of paraffin-embedded human lung cancer using 10348-1-AP (STOML2 antibody) at dilution of 1:100 (under 40x lens).



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 CoralLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).