

For Research Use Only

Stomatin Polyclonal antibody

Catalog Number: 12046-1-AP **4 Publications**



Basic Information

Catalog Number: 12046-1-AP	GenBank Accession Number: BC010703	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 750 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 2040	Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF/ICC 1:200-1:800
Source: Rabbit	UNIPROT ID: P27105	
Isotype: IgG	Full Name: stomatin	
Immunogen Catalog Number: AG2676	Calculated MW: 288 aa, 32 kDa	
	Observed MW: 32 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, IP, ELISA	Positive Controls: WB : HeLa cells, A549 cells, human liver tissue, human lung tissue, K-562 cells IP : HeLa cells, IHC : human lung cancer tissue, IF/ICC : A549 cells,
Cited Applications: WB, IHC, ColP	
Species Specificity: human	
Cited Species: human	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

STOM, also named as BND7, EPB72, Stomatin and Protein 7.2b, belongs to the band 7/mec-2 family. It is thought to regulate cation conductance. STOM may regulate ACCN1 and ACCN3 gating. STOM is a membrane protein involved in regulation of monovalent cation transport through lipid membranes. Interestingly, STOM (which has a structure similar to caveolin) is a major lipid-raft component of erythrocytes. It may have a role in membrane microdomains modulation leading to membrane budding and MPs release.(PMID:19138258)

Notable Publications

Author	Pubmed ID	Journal	Application
Yashuang Yang	36385596	Front Med	WB
Artem G Ayuyan	38444158	Biophys J	WB,ColP
Rubin O O	19138258	Vox Sang	WB

Storage

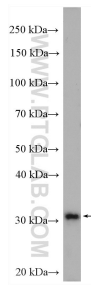
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

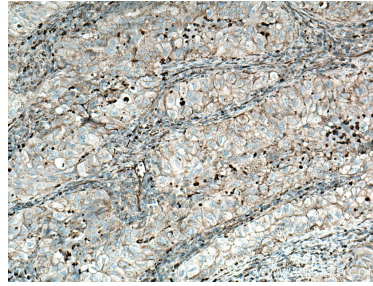
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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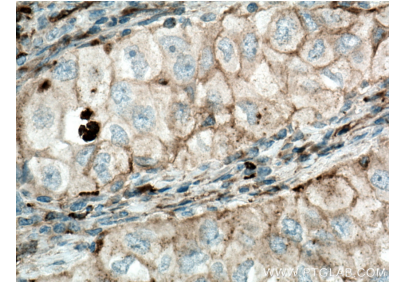
Selected Validation Data



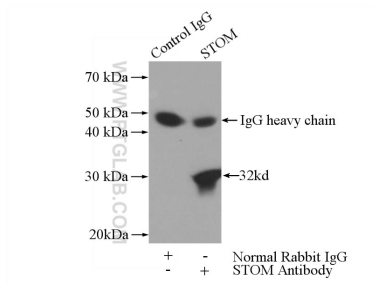
HeLa cells were subjected to SDS PAGE followed by western blot with 12046-1-AP (Stomatin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



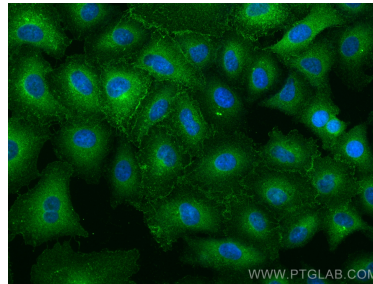
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 12046-1-AP (Stomatin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 12046-1-AP (Stomatin antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-Stomatin (IP:12046-1-AP, 3 μ g; Detection:12046-1-AP 1:300) with HeLa cells lysate 2800 μ g.



Immunofluorescent analysis of (4% PFA) fixed A549 cells using Stomatin antibody (12046-1-AP) at dilution of 1:400 and CoraLite $\text{\textcircled{R}}$ 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).