For Research Use Only

SMPDL3B Polyclonal antibody

Catalog Number:16552-1-AP Featured Product 7 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
16552-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG9535

GenBank Accession Number:
BC014444

GeneID (NCBI):
27293

UNIPROT ID:
Q92485

Full Name:
sphingomyelin phosphodiesterase, acid-like 3B

Calculated MW:
373aa,42 kDa; 455aa,51 kDa

Observed MW:
42 kDa, 50-65 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:500-1:2000
IHC: 1:250-1:1000

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, pig, monkey

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 : COLO 320 cells, HEK-293 cells

IHC : human kidney tissue, human colon cancer tissue

Background Information

SMPDL3B (sphingomyelin phosphodiesterase acid-like 3B) is lipid-modulating phosphodiesterase, which is active on the surface of macrophages and dendritic cells and strongly influences macrophage lipid composition and membrane fluidity. SMPDL3B acts as a negative regulator of Toll-like receptor signaling.It lacks activity with phosphocholine-containing lipids, but can cleave CDP-choline, and can release phosphate from ATP and ADP in vitro (PMID: 26095358). SMPDL3B can be detected 60-70 kDa by N-glycosylation modification (PMID: 26095358, PMID: 31217420).

Notable Publications

Author	Pubmed ID	Journal	Application
Taesik Gwag	33294831	JHEP Rep	WB
Xin Li	29923306	Basic Clin Pharmacol Toxicol	WB,IHC
Huiqing Qu	34504869	Front Mol Biosci	WB

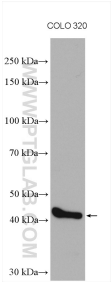
Storage

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

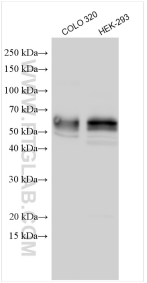
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

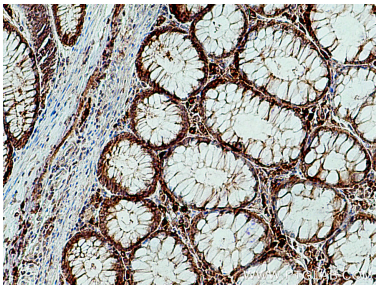
Selected Validation Data



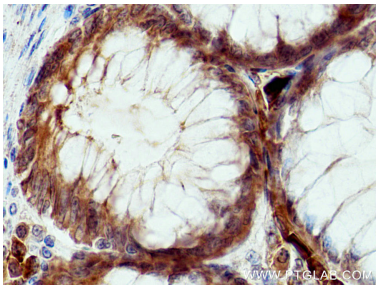
COLO 320 cells lysates were subjected to SDS PAGE followed by western blot with 16552-1-AP (SMPDL3B antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



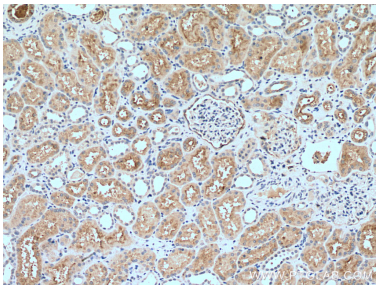
Various lysates were subjected to SDS PAGE followed by western blot with 16552-1-AP (SMPDL3B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



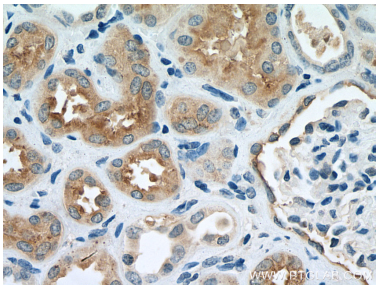
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 16552-1-AP (SMPDL3B antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 16552-1-AP (SMPDL3B antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 16552-1-AP (SMPDL3B 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 kidney tissue slide using 16552-1-AP (SMPDL3B antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).