

For Research Use Only

# SMPDL3B Polyclonal antibody

Catalog Number: 16552-1-AP

Featured Product

4 Publications



## Basic Information

Catalog Number:

16552-1-AP

Size:

600 µg/ml

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:

IHC, WB, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse, monkey, pig

**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 is lipid-modulating phosphodiesterase. 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

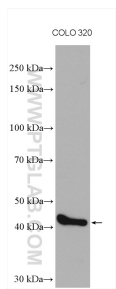
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

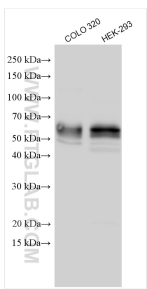
W: [ptgcn.com](http://ptgcn.com)

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

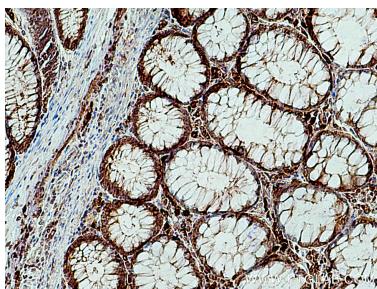
Selected Validation Data



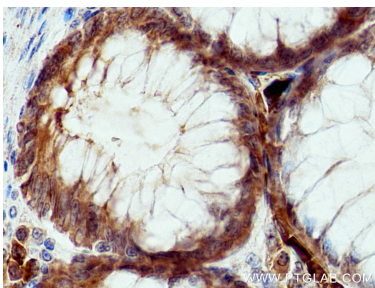
COLO 320 cells lysates were subjected to SDS PAGE followed by western blot with 16552-1-AP (SMPDL3B antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



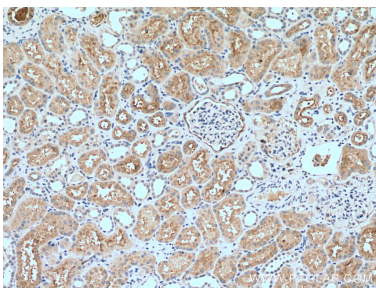
Various lysates were subjected to SDS PAGE followed by western blot with 16552-1-AP (SMPDL3B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



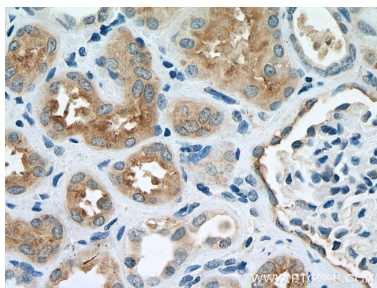
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 16552-1-AP (SMPDL3B antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).