

For Research Use Only

# SMPDL3B Polyclonal antibody

Catalog Number: 16552-1-AP

Featured Product

5 Publications



## Basic Information

<b>Catalog Number:</b> 16552-1-AP	<b>GenBank Accession Number:</b> BC014444	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 27293	<b>Recommended Dilutions:</b> WB: 1:500-1:2000 IHC: 1:250-1:1000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q92485	
<b>Isotype:</b> IgG	<b>Full Name:</b> sphingomyelin phosphodiesterase, acid-like 3B	
<b>Immunogen Catalog Number:</b> AG9535	<b>Calculated MW:</b> 373aa,42 kDa; 455aa,51 kDa	
	<b>Observed MW:</b> 42 kDa, 50-65 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : COLO 320 cells, HEK-293 cells
<b>Cited Applications:</b> WB, IHC, IF	<b>IHC :</b> human kidney tissue, human colon cancer tissue
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> 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**

## 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

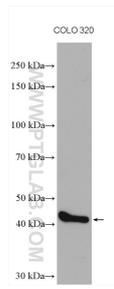
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

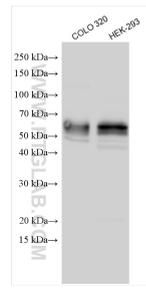
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

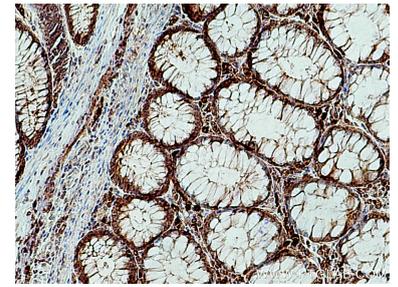
## Selected Validation Data



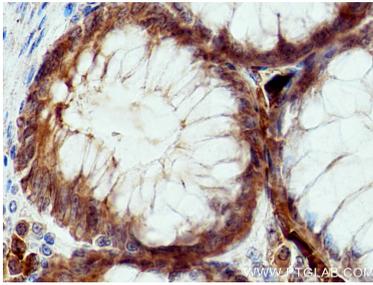
COLO 320 cells lysates were subjected to SDS PAGE followed by western blot with 16552-1-AP (SMPDL3B antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



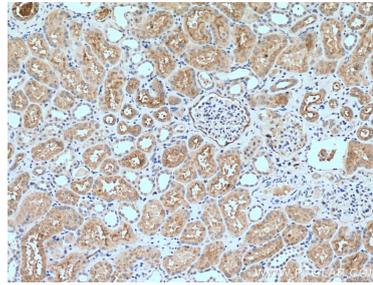
Various lysates were subjected to SDS PAGE followed by western blot with 16552-1-AP (SMPDL3B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



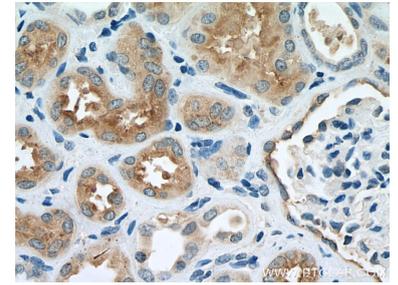
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 16552-1-AP (SMPDL3B antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).