

For Research Use Only

# SMURF2 Polyclonal antibody

Catalog Number: 18038-1-AP

Featured Product

2 Publications



## Basic Information

<b>Catalog Number:</b> 18038-1-AP	<b>GenBank Accession Number:</b> BC093876	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 800 µg/ml by Nanodrop and 560 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 64750	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:250-1:1000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9HAU4	
<b>Isotype:</b> IgG	<b>Full Name:</b> SMAD specific E3 ubiquitin protein ligase 2	
<b>Immunogen Catalog Number:</b> AG12666	<b>Calculated MW:</b> 748 aa, 86 kDa	
	<b>Observed MW:</b> 86-100 kDa	

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IP

### 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: mouse testis tissue, rat testis tissue

IHC: human lung cancer tissue, human malignant melanoma tissue, mouse testis tissue, rat kidney tissue, rat testis tissue

## Background Information

SMURF2 is a HECT domain E3 ubiquitin ligase involved in degradation of SMADs, TGF-beta receptor, and other substrates. It also functions in regulation of neuronal and planar cell polarity, induction of senescence, and tumor suppression (PMID:22231558). SMURF2 associates constitutively with SMAD7 and is nuclear, but binding to SMAD7 induces export and recruitment to activated TGFBR, where it causes degradation of receptors and of SMAD7 via proteasomal and lysosomal pathways (PMIF:11163210). SMURF2 can be detected 100 kDa by poly-sumoylated (PMID:26679521).

## Notable Publications

Author	Pubmed ID	Journal	Application
Juan Xiao	36068514	Mol Med	IP
Wenxin Zhang	38016474	Mol Cell	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

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

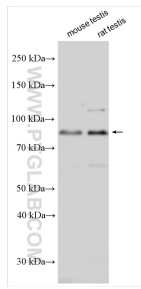
For technical support and original validation data for this product please contact:

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

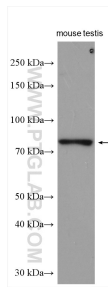
E: proteintech@ptglab.com  
W: ptglab.com

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

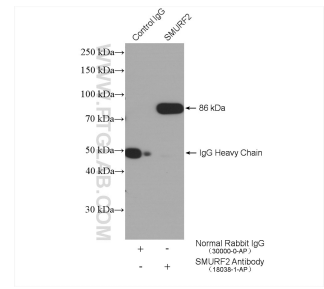
## Selected Validation Data



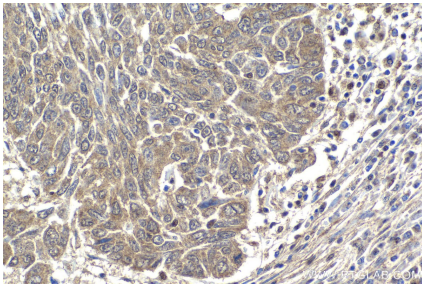
Various lysates were subjected to SDS PAGE followed by western blot with 18038-1-AP (SMURF2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 18038-1-AP (SMURF2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



IP result of anti-SMURF2 (IP:18038-1-AP, 4ug; Detection:18038-1-AP 1:300) with mouse testis tissue lysate 4000 ug.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 18038-1-AP (SMURF2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).