

For Research Use Only

SMURF2 Polyclonal antibody

Catalog Number: 18038-1-AP

Featured Product

2 Publications



Basic Information

Catalog Number:

18038-1-AP

Size:

800 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12666

GenBank Accession Number:

BC093876

GeneID (NCBI):

64750

UNIPROT ID:

Q9HAU4

Full Name:

SMAD specific E3 ubiquitin protein ligase 2

Calculated MW:

748 aa, 86 kDa

Observed MW:

86-100 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, 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

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

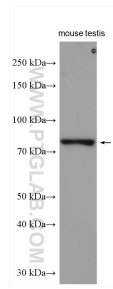
T: 4006900926

E: Proteintech-CN@ptglab.com

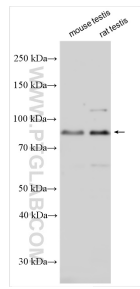
W: ptgcn.com

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

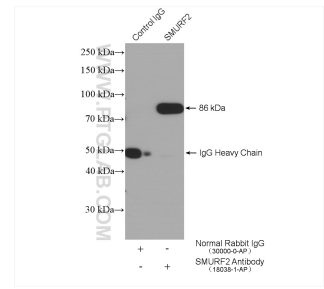
Selected Validation Data



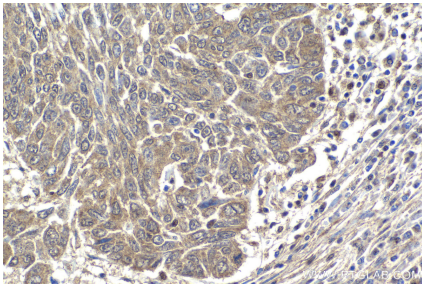
Various lysates were subjected to SDS PAGE followed by western blot with 18038-1-AP (SMURF2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



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.



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).