

For Research Use Only

# SMAD5 Polyclonal antibody

Catalog Number: 12167-1-AP

Featured Product

24 Publications



## Basic Information

Catalog Number:

12167-1-AP

Size:

600 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2809

GenBank Accession Number:

BC009682

GeneID (NCBI):

4090

UNIPROT ID:

Q99717

Full Name:

SMAD family member 5

Calculated MW:

465 aa, 52 kDa

Observed MW:

52 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:16000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IF/ICC 1:200-1:800

## Applications

Tested Applications:

WB, IF/ICC, IP, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB : HeLa cells, K-562 cells, NIH/3T3 cells, PC-12 cells

IP : HeLa cells,

IF/ICC : HeLa cells, MCF-7 cells

## Background Information

SMAD5, also named as MADH5 and JV5-1, is a transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD5 is a receptor-regulated SMAD (R-SMAD). It plays a critical role in the signaling pathway by which TGF-beta inhibits the proliferation of human hematopoietic progenitor cells.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xueni Wang	32879393	Sci Rep	WB
Jinliang Chen	29715457	Biochem Biophys Res Commun	WB
Wei Peng	35314669	Cell Death Dis	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:

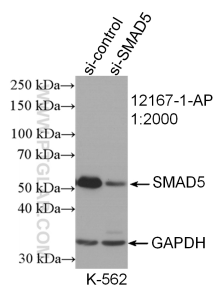
T: 4006900926

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

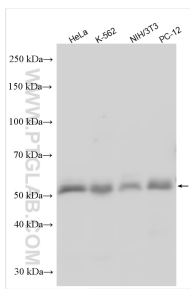
W: [ptgcn.com](http://ptgcn.com)

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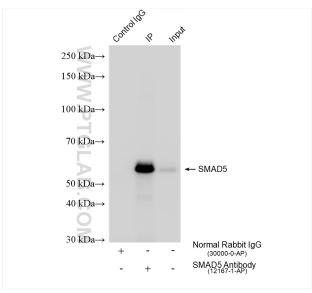
Selected Validation Data



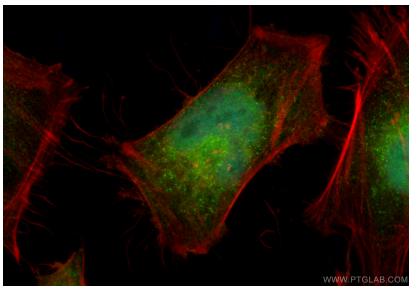
WB result of SMAD5 antibody (12167-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SMAD5 transfected K-562 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 12167-1-AP (SMAD5 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



IP result of anti-SMAD5 (IP:12167-1-AP, 4ug; Detection:12167-1-AP 1:5000) with HeLa cells lysate 1760 ug.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using SMAD5 antibody (12167-1-AP) at dilution of 1:400 and Multi-rAb Coralite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).