

For Research Use Only

SMAD5 Polyclonal antibody

Catalog Number: 12167-1-AP

Featured Product

24 Publications



Basic Information

Catalog Number:

12167-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop and 133 ug/ml by Bradford method using BSA as the standard;

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

*** 20ul sizes contain 0.1% BSA

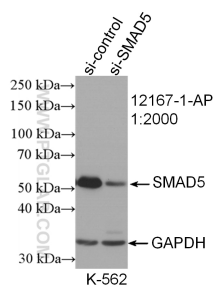
For technical support and original validation data for this product please contact:

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

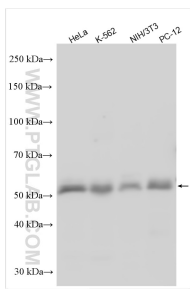
E: proteintech@ptglab.com
W: ptglab.com

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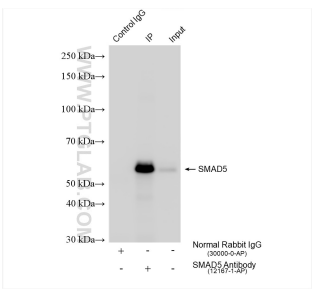
Selected Validation Data



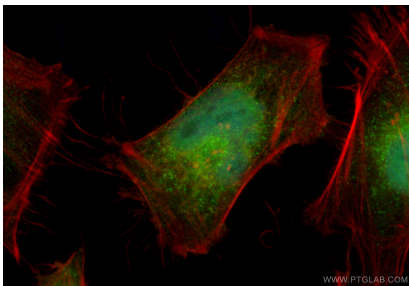
WB result of SMAD5 antibody (12167-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SMAD5 transfected K-562 cells.



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).