

For Research Use Only

# SMAD3 Polyclonal antibody

Catalog Number: 25494-1-AP

Featured Product

75 Publications



## Basic Information

**Catalog Number:**

25494-1-AP

**Concentration:**

340 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_005902

**GeneID (NCBI):**

4088

**UNIPROT ID:**

P84022

**Full Name:**

SMAD family member 3

**Calculated MW:**

48 kDa

**Observed MW:**

48 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, ELISA

**Cited Applications:**

WB, IHC, IF

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat, canine, bovine

**Positive Controls:**

**WB:** Jurkat cells, A431 cells, A549 cells, HeLa cells, SH-SY5Y cells

**IHC:** human colon cancer tissue, human liver cancer tissue

**IF/ICC:** HeLa cells,

**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

SMAD3, also named as hMAD3 or Mad3, is a 425 amino acid protein, which contains one MH1 domain and one MH2 domain. SMAD3 localizes in the nucleus and cytoplasm. SMAD3 plays an essential role in development and maintenance of self-tolerance and is a critical mediator of the TGFβ signaling pathway. SMAD3 is involved in TGFβ dependent regulation of steroidogenesis and in T-cell response to TGFβ.

## Notable Publications

Author	Pubmed ID	Journal	Application
Kexin Ma	32961493	Ecotoxicol Environ Saf	WB,IF
Yong Xu	34630661	Exp Ther Med	WB
Shuyuan Chu	31496319	Exp Lung Res	IHC

## 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:

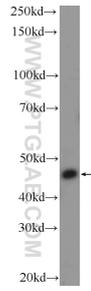
T: 4006900926

E: Proteintech-CN@ptglab.com

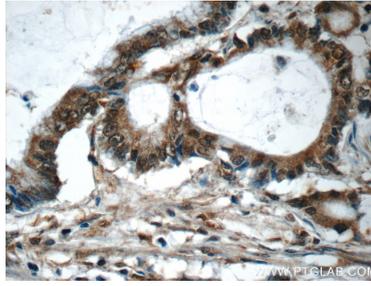
W: ptgcn.com

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

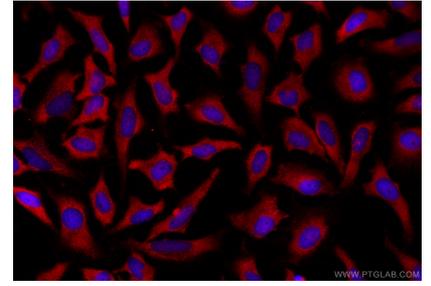
## Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 25494-1-AP (SMAD3 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 25494-1-AP (SMAD3 Antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using SMAD3 antibody (25494-1-AP) at dilution of 1:400 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).