

For Research Use Only

# SMAD3 Monoclonal antibody

Catalog Number: 66516-1-Ig **74 Publications**



## Basic Information

<b>Catalog Number:</b> 66516-1-Ig	<b>GenBank Accession Number:</b> NM_005902	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 2000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4088	<b>CloneNo.:</b> 1F10B2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P84022	<b>Recommended Dilutions:</b> WB 1:2000-1:12000
<b>Isotype:</b> IgG1	<b>Full Name:</b> SMAD family member 3	
	<b>Calculated MW:</b> 48 kDa	
	<b>Observed MW:</b> 55-60 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : HT-1080 cells, NIH/3T3 cells, A431 cells, HEK-293 cells, Jurkat cells, K-562 cells, 4T1 cells
<b>Cited Applications:</b> WB, IF, IHC, CoIP	
<b>Species Specificity:</b> Human, mouse	
<b>Cited Species:</b> human, mouse	

## 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
Shaling Li	36169092	Cancer Sci	WB
Bingyu Xie	36179941	Mol Cell Endocrinol	WB
Wen Zhao	34490599	Histol Histopathol	WB,IHC

## Storage

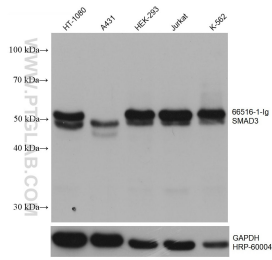
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 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



Various lysates were subjected to SDS PAGE followed by western blot with 66516-1-Ig (SMAD3 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.