

# SMAD1 Monoclonal antibody

Catalog Number: 66559-1-Ig 4 Publications

## Basic Information

<b>Catalog Number:</b> 66559-1-Ig	<b>GenBank Accession Number:</b> BC001878	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 4086	<b>CloneNo.:</b> 2D10B8
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q15797	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:250-1:1000
<b>Isotype:</b> IgG1	<b>Full Name:</b> SMAD family member 1	
<b>Immunogen Catalog Number:</b> AG0701	<b>Calculated MW:</b> 52 kDa	
	<b>Observed MW:</b> 52 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Cited Applications:

WB, ColP

### 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**: HT-1080 cells, HeLa cells, HEK-293 cells, HepG2 cells, HSC-T6 cells, RAW 264.7 cells, NIH/3T3 cells

**IHC**: human gliomas tissue,

## Background Information

Transforming growth factor- $\beta$  (TGF- $\beta$ ) superfamily is recognized as one of the largest families of secreted multifunctional peptides exerting different biological effects on a large variety of cell types, such as regulation of hormone secretion, stimulation of extracellular matrix formation, the inhibition of proliferation of many cell types, cell survival, bone formation, and chemotaxis for inflammatory cells. One of the most important proteins that modulate TGF- $\beta$  ligand activity is the SMAD family proteins. SMAD1 is one of the receptor-activated Smads. It's also a signal transducers of BMP signaling and binds to several proteins involved in ubiquitin-proteasome system (UPS). Transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase

## Notable Publications

Author	Pubmed ID	Journal	Application
Jinliang Chen	29715457	Biochem Biophys Res Commun	WB
Lin Lu	35487890	Oncogenesis	WB
Hui Zhang	38917963	Bone	WB, ColP

## 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:

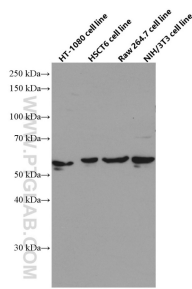
T: 4006900926

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

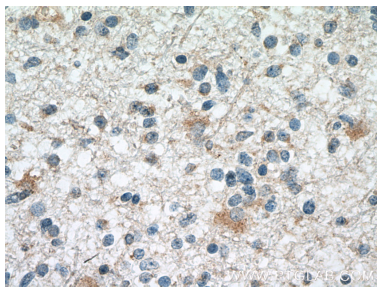
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66559-1-Ig (SMAD1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 66559-1-Ig (SMAD1 antibody) at dilution of 1:500 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).