

# SMAD5 Monoclonal antibody

Catalog Number: 67052-1-Ig 6 Publications

## Basic Information

<b>Catalog Number:</b> 67052-1-Ig	<b>GenBank Accession Number:</b> BC009682	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1900 µg/ml	<b>GeneID (NCBI):</b> 4090	<b>CloneNo.:</b> 1A6A4
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q99717	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:150-1:600
<b>Isotype:</b> IgG2a	<b>Full Name:</b> SMAD family member 5	
<b>Immunogen Catalog Number:</b> AG28699	<b>Calculated MW:</b> 465 aa, 52 kDa <b>Observed MW:</b> 52 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, ColP	<b>WB :</b> HEK-293 cells, MCF-7 cells, HT-29 cells, Caco-2 cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells
<b>Species Specificity:</b> Human, mouse, rat	<b>IHC :</b> human breast cancer tissue, human colon cancer tissue
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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
Norika Chiba	35594155	FEBS Lett	WB
Song Yang	35634178	Appl Bionics Biomech	WB
Muhammad Subhan Amir	35411937	J Cell Physiol	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:

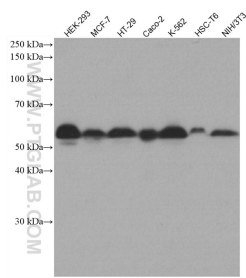
T: 4006900926

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

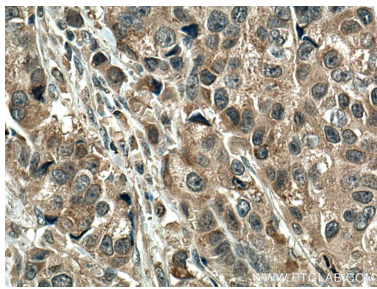
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67052-1-Ig (SMAD5 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67052-1-Ig (SMAD5 antibody) at dilution of 1:300 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).