

## SMAD1 Polyclonal Antibody

Catalog number: 10429-1-AP

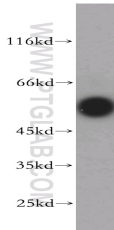
Size: 63 µg/150 µl

Source: Rabbit

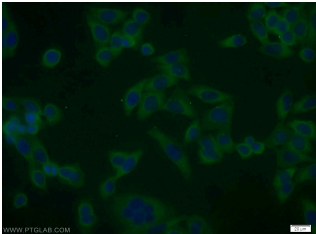
Isotype: IgG

Synonyms:

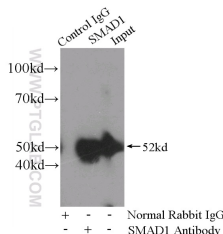
SMAD1; BSP 1, BSP1,  
hSMAD1, JV4 1, JV41, MAD  
homolog 1, Mad related  
protein 1, MADH1, MADR1,  
Mothers against DPP homolog  
1, SMAD 1, SMAD family  
member 1, SMAD1



HepG2 cells were subjected to SDS PAGE followed by western blot with 10429-1-AP(SMAD1 antibody) at dilution of 1:300



Immunofluorescent analysis of HeLa cells using 10429-1-AP( SMAD1 Antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



IP Result of anti-SMAD1 (IP:10429-1-AP, 4µg; Detection:10429-1-AP 1:500) with mouse heart tissue lysate 8000µg.

### Background

Transforming growth factor-β (TGF-β) 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-β 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

### Applications

Tested applications:	ELISA, WB, IF, IP
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated SMAD1 MW:	52 kDa
Observed SMAD1 MW:	52 kDa
Positive WB detected in	HepG2 cells, HeLa cells, mouse heart tissue
Positive IP detected in	Mouse heart tissue
Positive IF detected in	HeLa cells, HepG2 cells
Recommended dilution:	WB: 1:200-1:2000
	IP: 1:200-1:2000
	IF: 1:10-1:100

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

Immunogen:	Ag0701
GenBank accession number:	BC001878
Gene ID (NCBI):	4086
Full name:	SMAD family member 1

### Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.