

## SMAD4 Polyclonal Antibody

Catalog number: 10231-1-AP

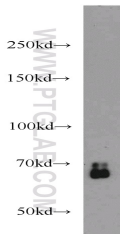
Size: 36 µg/150 µl

Source: Rabbit

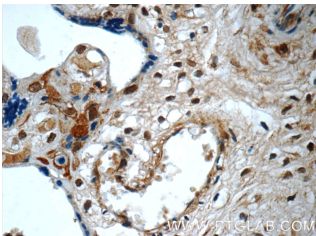
Isotype: IgG

Synonyms:

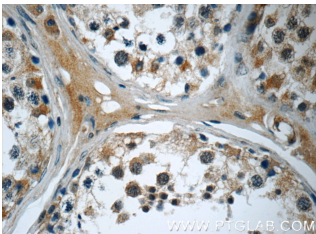
SMAD4; DPC4, hSMAD4, JIP, MAD homolog 4, MADH4, Mothers against DPP homolog 4, SMAD 4, SMAD family member 4, SMAD4



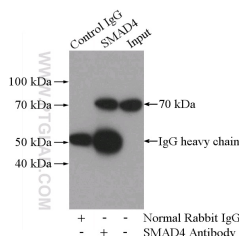
HEK-293 cells were subjected to SDS PAGE followed by western blot with 10231-1-AP(SMAD4 antibody) at dilution of 1:600



Immunohistochemistry of paraffin-embedded human placenta tissue slide using 10231-1-AP(SMAD4 Antibody) at dilution of 1:50 (under 40x lens)



Immunohistochemistry of paraffin-embedded human testis tissue slide using 10231-1-AP(SMAD4 Antibody) at dilution of 1:50 (under 40x lens)



### Background

Mammalian homologs of the Drosophila Mad gene include Smad1, Smad2, Smad3, Smad4 (DPC4), Smad5, Smad6, Smad7 and Smad8. Smad1 and Smad5 are effectors of BMP2 and BMP4 function while Smad2 and Smad3 are involved in TGF and activin-mediated growth modulation. Smad4 has been shown to mediate all of the above activities through interaction with various Smad family members. Smad6 and Smad7 regulate the response to activin/ TGF signaling by interfering with TGF-mediated phosphorylation of other Smad family members. This antibody is a rabbit polyclonal antibody raised against an internal region of human SMAD4.

### Applications

Tested applications:	ELISA, WB, IHC, IP
Cited applications:	IHC, WB
Species specificity:	Human, Mouse; other species not tested.
Cited species:	Human
Calculated SMAD4 MW:	60 kDa
Observed SMAD4 MW:	63-70 kDa
Positive WB detected in	HEK-293 cells, A549 cells, HepG2 cells, MCF7 cells, mouse liver tissue, NIH/3T3 cells, SMMC-7721 cells
Positive IP detected in	Mouse liver tissue
Positive IHC detected in	Human placenta tissue, human testis tissue
Recommended dilution:	WB: 1:200-1:2000 IP: 1:200-1:2000 IHC: 1:20-1:200

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

### Immunogen information

Immunogen:	Ag0299
GenBank accession number:	BC002379
Gene ID (NCBI):	4089
Full name:	SMAD family member 4

### Product information

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

**IP Result of anti-SMAD4  
(IP:10231-1-AP, 4ug;  
Detection:10231-1-AP 1:600)  
with mouse liver tissue lysate  
4000ug.**