

## Product datasheet for **AP20668PU-N**

### SMAD6 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	<b>Western blot: 1/500-1/1000.</b> <b>Immunohistochemistry on paraffin sections</b> 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of Smad6 protein. (region surrounding asn372)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 53 kDa
Gene Name:	SMAD family member 6
Database Link:	<u><a href="#">Entrez Gene 17130 Mouse</a></u> <u><a href="#">Entrez Gene 367100 Rat</a></u> <u><a href="#">Entrez Gene 4091 Human</a></u> <u><a href="#">O43541</a></u>



[View online »](#)

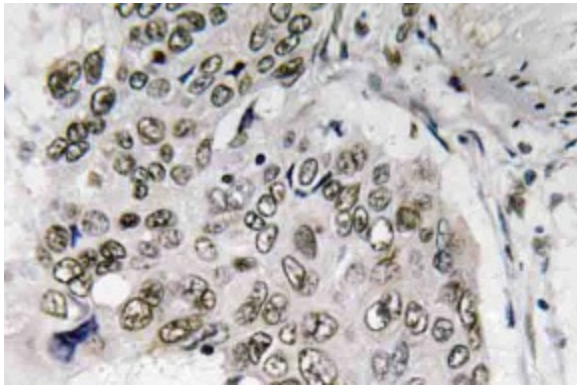
**Background:** Smad proteins, the mammalian homologs of the Drosophila Mothers against dpp (Mad) have been implicated as downstream effectors of TGFbeta/BMP signaling. Smad1 (also designated Madr1 or JV4-1), Smad5 and mammalian Smad8 (also designated Smad9 or MadH6) are effectors of BMP2 and BMP4 function, while Smad2 (also designated Madr2 or JV18-1) and Smad3 are involved in TGFbeta and activin-mediated growth modulation. Smad4 (also designated DPC4) 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/TGFbeta signaling by interfering with TGFbeta-mediated phosphorylation of other Smad family members.

**Synonyms:** SMAD family member 6, SMAD 6, SMAD-6, MADH6, MAD homolog 6

**Protein Families:** Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors

**Protein Pathways:** TGF-beta signaling pathway

### Product images:



Immunohistochemistry (IHC) analyzes of Smad6 antibody (Cat.-No.: AP20668PU-N) in paraffin-embedded human lung carcinoma tissue.