

# SMAD9 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP14903C

## Product Information

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<b>Application</b>	IHC-P-Leica, WB, E
<b>Primary Accession</b>	<a href="#">O15198</a>
<b>Other Accession</b>	<a href="#">NP_005896.1</a> , <a href="#">NP_001120689.1</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB35231
<b>Calculated MW</b>	52493
<b>Antigen Region</b>	200-228

## Additional Information

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<b>Gene ID</b>	4093
<b>Other Names</b>	Mothers against decapentaplegic homolog 9, MAD homolog 9, Mothers against DPP homolog 9, Madh6, SMAD family member 9, SMAD 9, Smad9, SMAD9, MADH6, MADH9
<b>Target/Specificity</b>	This SMAD9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 200-228 amino acids from the Central region of human SMAD9.
<b>Dilution</b>	IHC-P-Leica~~1:500 WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	SMAD9 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	SMAD9
<b>Synonyms</b>	MADH6, MADH9, SMAD8 {ECO:0000303 PubMed:

<b>Function</b>	Transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD9 is a receptor- regulated SMAD (R-SMAD).
<b>Cellular Location</b>	Cytoplasm. Nucleus. Note=In the cytoplasm in the absence of ligand. Migration to the nucleus when complexed with SMAD4 (By similarity).
<b>Tissue Location</b>	Expressed in heart, brain, placenta, lung, skeletal muscle, prostate, testis, ovary and small intestine. Also expressed in fetal brain, lung and kidney

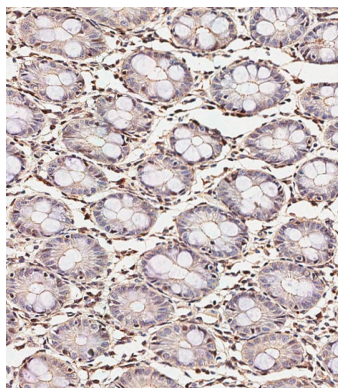
## Background

The protein encoded by this gene is a member of the SMAD family, which transduces signals from TGF-beta family members. The encoded protein is activated by bone morphogenetic proteins and interacts with SMAD4. Two transcript variants encoding different isoforms have been found for this gene.

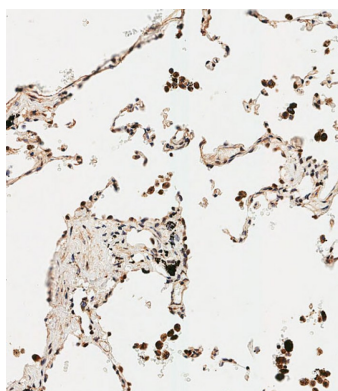
## References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :  
Liu, Y., et al. FASEB J. 23(7):2299-2306(2009)  
Su, D., et al. J. Biol. Chem. 284(18):12153-12164(2009)  
Shintani, M., et al. J. Med. Genet. 46(5):331-337(2009)  
Hoover, L.L., et al. Sci Signal 1 (46), PE48 (2008) :

## Images

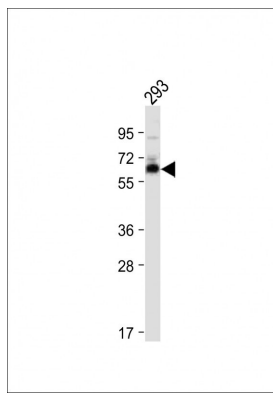


Immunohistochemical analysis of paraffin-embedded Human colon tissue using AP14903C performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Immunohistochemical analysis of paraffin-embedded Human lung tissue using AP14903C performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

Anti-SMAD9 Antibody (Center) at 1:2000 dilution + 293 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 52 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.