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SMAD9 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14903C

Product Information

Application	IHC-P-Leica, WB, E
Primary Accession	O15198
Other Accession	NP_005896.1, NP_001120689.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35231
Calculated MW	52493
Antigen Region	200-228

Additional Information

Gene ID	4093
Other Names	Mothers against decapentaplegic homolog 9, MAD homolog 9, Mothers against DPP homolog 9, Madh6, SMAD family member 9, SMAD 9, Smad9, SMAD9, MADH6, MADH9
Target/Specificity	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.
Dilution	IHC-P-Leica~~1:500 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	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.
Storage	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.
Precautions	SMAD9 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SMAD9 (HGNC:6774)
Function	Transcriptional modulator activated by BMP (bone morphogenetic proteins)

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

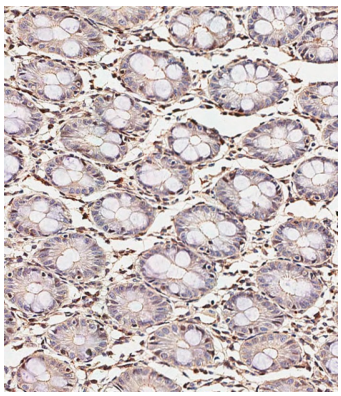
Background

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.

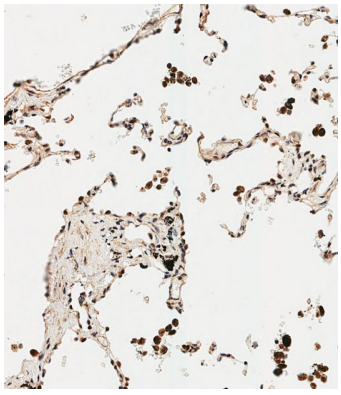
References

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

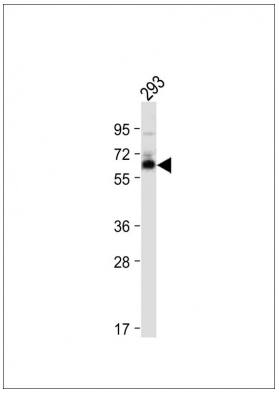


Immunohistochemical analysis of paraffin-embedded Human colon tissue using AP14903C performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 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'.