

Rabbit SMAD9 Polyclonal Antibody | anti-SMAD9 antibody

Anti-SMAD9 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254492	Rabbit	Human Predicted to React with: Mouse, Rat (Species predicted to react based on 100% sequence homology)	Immunofluorescence, Immunocytochemistry, Western Blot

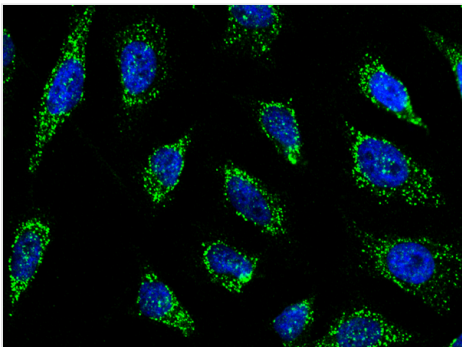
PRODUCT SYNONYMS

SMAD9; Polyclonal Antibody; Anti-SMAD9 Antibody; Rabbit Polyclonal; SMAD9 Antibody; Rabbit PAb; Antigen Affinity Purified; SMAD family member 9; Anti-MADH6 Antibody; Anti-MADH9 Antibody; Anti-PPH2 Antibody; Anti-SMAD8 Antibody; Anti-SMAD8A Antibody; Anti-SMAD8B Antibody; anti-SMAD9 antibody

PRODUCT SPECIFICATIONS

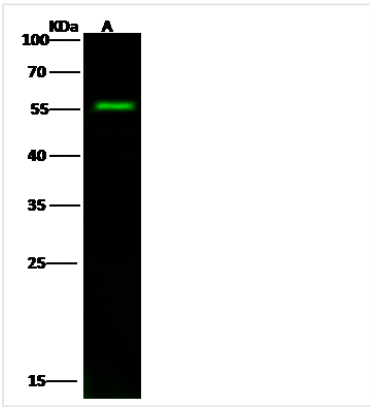
Host	Rabbit
Reactivity	Human Predicted to React with: Mouse, Rat (Species predicted to react based on 100% sequence homology)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human SMAD9
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-SMAD9 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the center region of the Human SMAD9
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Human SMAD9, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of SMAD9 in Hela cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-human SMAD9 polyclonal antibody (1:5000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to cytoplasm.



WB (Western Blot)

Anti-SMAD9 rabbit polyclonal antibody at 1:500 dilution Lane A: A549 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti- Rabbit & IgG H&L (Dylight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 52 kDa Observed band size: 56 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-SMAD9 antibody	SMAD9 is one of the important transcription factors in the BMP/SMAD pathway and is involved in goose follicular initiation. SMAD9 is differentially expressed in goose follicles and acts as a key player in the control over goose follicular selection. Smad1, Smad5, and Smad9 (also known as Smad8) are activated by phosphorylation by bone morphogenetic protein (BMP)-bound type I receptor kinases. Smad9 is a new type of transcriptional regulator in BMP signaling. smad1 and smad9 act redundantly to each other downstream of smad5 to mediate ventral specification and to regulate embryonic myelopoiesis. Functional regions analysis of Smad9 indicated that SMAD9 protein is highly conserved in MH1 and MH2 domains, and the connection area is the highly variable region. miR-203a-3p.1 may serve an important role in the osteogenic differentiation of multiple myeloma (MM)-mesenchymal stem cells (MSCs) by regulating Smad9 expression.
References	Yu D, et al. (2019) A potential role for smad9 in goose follicular selection through regulation of mrna levels of luteinizing hormone receptor. Theriogenology 135 204-212. Wei CY, et al. (2014) Transcriptional factors smad1 and smad9 act redundantly to mediate zebrafish ventral specification downstream of smad5. J Biol Chem 289 (10): 6604-6618. Tsukamoto S, et al. (2014) Smad9 is a new type of transcriptional regulator in bone morphogenetic protein signaling. Sci Rep 4 7596. Fan FY, et al. (2019) Mir-203a-3p.1 is involved in the regulation of osteogenic differentiation by directly targeting smad9 in mm-mscs. Oncol Lett 18 (6): 6339-6346.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13959539
NCBI GeneID	4093
UniProt Accession #	O15198; O14989; Q5TBA1; A2A2Y6
Molecular Weight	467
NCBI Official Full Name	Mothers against decapentaplegic homolog 9
NCBI Official Synonym Full Names	SMAD family member 9
NCBI Official Symbol	SMAD9
NCBI Official Synonym Symbols	PPH2; MADH6; MADH9; SMAD8; SMAD8A; SMAD8B
NCBI Protein Information	mothers against decapentaplegic homolog 9; MAD homolog 9; SMAD, mothers against DPP homolog 9; Mothers against decapentaplegic, drosophila, homolog of, 9
UniProt Protein Name	Mothers against decapentaplegic homolog 9

UniProt Gene Name	SMAD9
UniProt Synonym Gene Names	MADH6; MADH9; MAD homolog 9; Mothers against DPP homolog 9; SMAD 9; Smad9
UniProt Entry Name	SMAD9_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/smad9-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/254492>