

Rabbit Smad3 Polyclonal Antibody | anti-Smad3 antibody

Anti-Smad3 Antibody, Rabbit Polyclonal

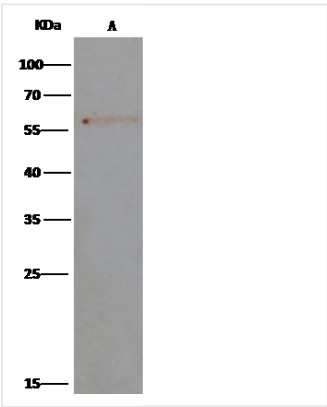
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254226	Rabbit	Human Predicted to React with: Mouse, Rat (Species predicted to react based on 100% sequence homology)	Immunoprecipitation, Western Blot

PRODUCT SYNONYMS

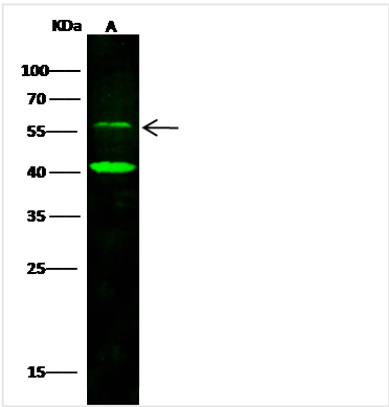
Smad3; Polyclonal Antibody; Anti-Smad3 Antibody; Rabbit Polyclonal; SMAD3 Antibody; Rabbit PAb; Antigen Affinity Purified; SMAD family member 3; Anti-HSPC193 Antibody; Anti-HsT17436 Antibody; Anti-JV15-2 Antibody; Anti-LDS1C Antibody; Anti-LDS3 Antibody; Anti-MADH3 Antibody; anti-Smad3 antibody

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 Smad3
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-Smad3 antibody	IP (Immunoprecipitation), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the center region of the human SMAD3
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with A synthetic peptide corresponding to the center region of the human SMAD3, 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.



IP (Immunoprecipitation)
SMAD3 was immunoprecipitated using: Lane A: 0.5 mg A549 Whole Cell Lysate 0.5 uL anti-SMAD3 rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose. Primary antibody: Anti-SMAD3 rabbit polyclonal antibody, at 1:500 dilution. Secondary antibody: Clean-Blot IP Detection Reagent (HRP) at 1:1000 dilution. Developed using the DAB staining technique. Performed under reducing conditions. Predicted band size: 48 kDa. Observed band size: 57 kDa.



WB (Western Blot)
Anti-SMAD3 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 (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 48 kDa. Observed band size: 57 kDa. (We are unsure as to the identity of these extra bands.)

ADDITIONAL INFORMATION

Related Product Information for anti-Smad3 antibody	SMAD3 belongs to the SMAD family. Members of this family mediate signal transduction by the TGF-beta/activin/BMP-2/4 cytokine superfamily from receptor Ser/Thr protein kinases at the cell surface to the nucleus. SMAD3 is involved in cell signalling. It modulates signals of activin and TGFbeta's. Binding of SMAD3 with SMAD4 enables its transmigration into the nucleus where it forms complexes with other proteins and acts as a transcription factor. SMAD3 is a receptor-regulated SMAD (R-SMAD). In mice, mutation of SMAD3 has been linked to colorectal adenocarcinoma, increased systemic inflammation, and accelerated wound healing. Increased SMAD3 activity has been implicated in the pathogenesis of scleroderma. Smad3 is also a multifaceted regulator in adipose physiology and the pathogenesis of obesity and type 2 diabetes.
Product Categories/Family for anti-Smad3 antibody	TGF-beta Signaling
References	Tan. et al., 2011, Diabetes. 60 (2): 464-76. Yang X. et al., 1999, Nat Cell Biol. 1 (5): 260-6. Zhu Y. et al., 1998, Cell. 94 (6): 703-14. Feng X. et al., 1996, Nature. 383 (6596): 168-72.

NCBI AND UNIPROT INFORMATION

NCBI GI #	223029440
NCBI GeneID	4088
NCBI Accession #	NP_001138574.1
NCBI GenBank Nucleotide #	NM_001145102.1
UniProt Accession #	P84022; O09064; O09144; O14510; O35273; Q92940; Q93002; A8K4B6; B7Z4Z5; B7Z6M9; B7Z9Q2; F5H383
Molecular Weight	48,081 Da
NCBI Official Full Name	mothers against decapentaplegic homolog 3 isoform 2
NCBI Official Synonym Full Names	SMAD family member 3
NCBI Official Symbol	SMAD3
NCBI Official Synonym Symbols	LDS3; LDS1C; MADH3; JV15-2; HSPC193; HsT17436
NCBI Protein Information	mothers against decapentaplegic homolog 3; mad3; hMAD-3; hSMAD3; MAD homolog 3; mad homolog JV15-2; mad protein homolog; mothers against DPP homolog 3; SMA- and MAD-related protein 3; SMAD, mothers against DPP homolog 3; MAD, mothers against decapentapleg

UniProt Protein Name	Mothers against decapentaplegic homolog 3
UniProt Gene Name	SMAD3
UniProt Synonym Gene Names	MADH3; MAD homolog 3; Mad3; Mothers against DPP homolog 3; hMAD-3; SMAD 3; Smad3; hSMAD3
UniProt Entry Name	SMAD3_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/smad3-antibody-immunoprecipitation-western-blot-elisa/254226>