

Rabbit anti-Human Smad1 Polyclonal Antibody | anti-Smad1 antibody

[KO Validated] Smad1 Rabbit pAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28413	Rabbit	Human	Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry

PRODUCT SYNONYMS

Smad1; Polyclonal Antibody; [KO Validated] Smad1 Rabbit pAb; SMAD1; BSP-1; BSP1; JV4-1; JV41; MADH1; MADR1; SMAD family member 1; anti-Smad1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.05% proclin300, 50% glycerol, pH7.3.
Applicable Applications for anti-Smad1 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry)
Application Notes	WB: 1:500-1:2000 IHC: 1:50-1:200 IF/ICC: 1:50-1:200
Positive Samples	HeLa, C2C12, ECV-304, Mouse lung
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 20-240 of human Smad1 (NP_005891.1).
Cellular Location	Cytoplasm, Nucleus
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



IF (Immunofluorescence)

Immunofluorescence analysis of NIH/3T3 cells using Smad1 Rabbit pAb at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded rat kidney using Smad1 Rabbit pAb at dilution of 1:50 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

**IHC (Immunohistochemistry)**

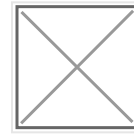
Immunohistochemistry of paraffin-embedded mouse lung using Smad1 Rabbit pAb at dilution of 1:50 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

**IHC (Immunohistochemistry)**

Immunohistochemistry of paraffin-embedded human breast cancer using Smad1 Rabbit pAb at dilution of 1:50 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

**WB (Western Blot)**

Western blot analysis of extracts from wild type (WT) and Smad1 knockout (KO) HeLa cells, using Smad1 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 10s.

**WB (Western Blot)**

Western blot analysis of extracts of various cell lines, using Smad1 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 10s.

ADDITIONAL INFORMATION

Related Product Information for anti-Smad1 antibody	The protein encoded by this gene belongs to the SMAD, a family of proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein mediates the signals of the bone morphogenetic proteins (BMPs), which are involved in a range of biological activities including cell growth, apoptosis, morphogenesis, development and immune responses. In response to BMP ligands, this protein can be phosphorylated and activated by the BMP receptor kinase. The phosphorylated form of this protein forms a complex with SMAD4, which is important for its function in the transcription regulation. This protein is a target for SMAD-specific E3 ubiquitin ligases, such as SMURF1 and SMURF2, and undergoes ubiquitination and proteasome-mediated degradation. Alternatively spliced transcript variants encoding the same protein have been observed.
Product Categories/Family for anti-Smad1 antibody	Epigenetics & Nuclear Signaling ; Transcription Factors ; Cancer ; Signal Transduction ; Cell Biology & Developmental Biology ; Growth factor ; TGF-b-Smad Signaling Pathway ; ESC Pluripotency and Differentiation ; Immunology & Inflammation ; Stem Cells ; SMADs ; Pol

NCBI AND UNIPROT INFORMATION

NCBI GeneID	4086
UniProt Accession #	Q9LWU9
Molecular Weight	Observed MW: 60KDa Calculated MW: 15kDa/52kDa

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://stage.aaabiotech.com/polyclonal/smad1-antibody-western-blot-immunohistochemistry-immunofluorescence-immunocytochemistry-elisa/28413>