

Mouse anti-Human SMAD1 Monoclonal Antibody | anti-SMAD1 antibody

Mouse monoclonal antibody Anti-Human SMAD1

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA10611	Mouse	Human	Dot Blot, Immunocytochemistry, Immunoprecipitation, Western Blot, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

SMAD1; Monoclonal Antibody; Mouse monoclonal antibody Anti-Human SMAD1; Homo sapiens SMAD family member 1 (SMAD1); transcript variant 1; BSP1; JV41; JV4-1; MADH1; MADR1; anti-SMAD1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	913C1b
Concentration	100 ug/ml (1.0 ml) (varies by lot)
Sequence Length	3056
Applicable Applications for anti-SMAD1 antibody	DB (Dot Blot), ICC (Immunocytochemistry), IP (Immunoprecipitation), WB (Western Blot), FCM/FACS (Flow Cytometry)
Preparation	This antibody was purified using protein G column chromatography from culture supernatant of hybridoma cultured in a medium containing bovine IgG-depleted (approximately 95%) fetal bovine serum.
Sterility	Filtered through a 0.22 um membrane.

IMAGES



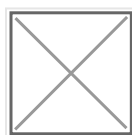
ICC (Immunocytochemistry)

Immunostaining analysis in HeLa cells. HeLa cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100 in PBS. The cells were immunostained with anti-SMAD1 mAb. [Lot No. 913C1b-1]



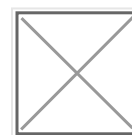
FCM (Flow Cytometry)

HeLa cells were fixed in 2% paraformaldehyde/PBS and then permeabilized in 90% methanol. Cells were stained with anti-SMAD1 mAb (shaded) or isotype control (unshaded) followed by Alexa Fluor(R) 488-conjugated goat anti-mouse IgG. [Lot No. 913C1b-1]



IP (Immunoprecipitation)

Immunoprecipitation: RIPA lysate of HeLa cells was incubated with anti-SMAD1 mAb. [Lot No. 913C1b-1] Predicted molecular weight: 52 kDa



WB (Western Blot)

Detection of SMAD1 by Western blot. Samples: Whole cell lysate from human HEK293 (H, 25 ug), mouse NIH3T3 (M, 25 ug) and rat F2408 (R, 25 ug) cells. [Lot No. 913C1b-1] Predicted molecular weight: 52 kDa



Quality Control

Arrow indicates the region of immunized recombinant protein carrying 50-200 amino acids.



Quality Control

Western blot analysis of immunized recombinant protein, using anti-SMAD1 monoclonal antibody.

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. [NCBI Entrez Gene Summary]

NCBI AND UNIPROT INFORMATION

NCBI GI #	51173725
NCBI GeneID	4086
NCBI Accession #	NP_005891.1
NCBI GenBank Nucleotide #	NM_005900
Molecular Weight	15,406 Da
NCBI Official Full Name	Homo sapiens SMAD family member 1 (SMAD1), transcript variant 1, mRNA
NCBI Official Synonym Full Names	SMAD family member 1
NCBI Official Symbol	SMAD1
NCBI Official Synonym Symbols	BSP1; JV41; BSP-1; JV4-1; MADH1; MADR1
NCBI Protein Information	mothers against decapentaplegic homolog 1; MAD homolog 1; MAD, mothers against decapentaplegic homolog 1; Mad-related protein 1; SMAD, mothers against DPP homolog 1; TGF-beta signaling protein 1; transforming growth factor-beta signaling protein 1; transforming growth factor-beta-signaling protein 1
UniProt Protein Name	Mothers against decapentaplegic homolog 1
UniProt Gene Name	SMAD1
UniProt Entry Name	SMAD1_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://stage.aaabiotech.com/monoclonal/smad1-antibody-clone-913c1b-dot-blot-immunocytochemistry-immunoprecipitation-western-blot-flow-cytometry-elisa/10611>