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

SMAD1 (Mothers Against Decapentaplegic Homolog 1, Mothers Against DPP Homolog 1, MAD Homolog 1, MADH1, SMAD Family Member 1, SMAD 1, hSMAD1, BSP-1, BSP1, JV4-1, JV41, Mad-related Protein 1, MADR1, Transforming Growth Factor-beta-signaling Protein 1) APC

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA24657** | **Mouse** | **Human** | **ELISA, Immunofluorescence, Immunohistochemistry, Western Blot** |

## PRODUCT SYNONYMS

SMAD1; Monoclonal Antibody; SMAD1 (Mothers Against Decapentaplegic Homolog 1; Mothers Against DPP Homolog 1; MAD Homolog 1; MADH1; SMAD Family Member 1; SMAD 1; hSMAD1; BSP-1; BSP1; JV4-1; JV41; Mad-related Protein 1; MADR1; Transforming Growth Factor-beta-signaling Protein 1) APC; anti-SMAD1 antibody

## PRODUCT SPECIFICATIONS

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|---|---|
| **Host** | Mouse |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Isotype** | IgG1,k |
| **Clone Number** | 1D3 |
| **Specificity** | Recognizes human SMAD1. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC). |
| **Applicable Applications for anti-SMAD1 antibody** | ELISA, IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot) |
| **Application Notes** | IF: 10ug/ml<br>Applications are based on unconjugated antibody. |
| **Immunogen** | Partial recombinant corresponding to aa1-110 from human SMAD1 (NP_005891) with GST tag. MW of the GST tag alone is 26kD. |
| **Immunogen Sequence** | MNVTSLFSFTSPAVKRLLGWKQGDEEEKWAEKAVDALVKKLKKKKGAMEELEKALSCPGQPSNCVTIPRSLDGRLQVSHRKGLPHVIYCRVWRWPDLQ |
| **Conjugate** | APC |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrif vial prior to removing the cap. |

## IMAGES

**WB (Western Blot)**
SMAD1 monoclonal antibody Western Blot analysis of SMAD1 expression in A-549.

**WB (Western Blot)**
Western Blot detection against Immunogen (37.84kD).

**Application Data**
Detection limit for recombinant GST tagged SMAD1 is ~3ng/ml as a capture antibody.

**IF (Immunofluorescence)**
Immunofluorescence of monoclonal antibody to SMAD1 on HeLa cell. [antibody concentration 10ug/ml]

**IHC (Immunohistochemistry)**
Immunoperoxidase of monoclonal antibody to SMAD1 on formalin-fixed paraffin-embedded human salivary gland tissue. [antibody concentration 3ug/ml]

**WB (Western Blot)**
Western Blot analysis of SMAD1 expression in transfected 293T cell line by SMAD1 monoclonal antibody. Lane 1: SMAD1 transfected lysate (52.3kD). Lane 2: Non-transfected lysate.

## ADDITIONAL INFORMATION

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|---|---|
| **Product Categories/Family for anti-SMAD1 antibody** | Antibodies; Smad Proteins |

## NCBI AND UNIPROT INFORMATION

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|---|---|
| **NCBI GI #** | 5174509 |
| **NCBI GeneID** | 4086 |
| **NCBI Accession #** | NP_005891 |
| **NCBI GenBank Nucleotide #** | NM_005900 |
| **UniProt Accession #** | Q15797 |
| **Molecular Weight** | 52kDa |
| **NCBI Official Full Name** | mothers against decapentaplegic homolog 1 |
| **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 |
| **UniProt Protein Name** | Mothers against decapentaplegic homolog 1 |
| **UniProt Gene Name** | **SMAD1** |
| **UniProt Synonym Gene Names** | BSP1; MADH1; MADR1; MAD homolog 1; Mothers against DPP homolog 1; SMAD 1; Smad1; hSMAD1; BSP-1 |
| **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-1d3-immunofluorescence-immunohistochemistry-western-blot-elisa/24657