# Mouse anti-Human Smad4 Monoclonal Antibody | anti-Smad4 antibody

Smad4 Monoclonal Antibody

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA320227** | **Mouse** | **Human** | **ELISA, Flow Cytometry, Functional Assay, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot** |

## PRODUCT SYNONYMS

Smad4; Monoclonal Antibody; Smad4 Monoclonal Antibody; Mothers against decapentaplegic homolog 4; SMAD4; DPC4; MADH4; MAD homolog 4; Mothers against DPP homolog 4; Deletion target in pancreatic carcinoma 4; SMAD family member 4; SMAD 4; hSMAD4; anti-Smad4 antibody

## PRODUCT SPECIFICATIONS

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|---|---|
| **Host** | Mouse |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Specificity** | Smad4 Monoclonal Antibody detects endogenous levels of Smad4 protein. |
| **Purity/Purification** | Affinity purification |
| **Form/Format** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Applicable Applications for anti-Smad4 antibody** | ELISA, FCM/FACS (Flow Cytometry), ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot) |
| **Immunogen** | Purified recombinant fragment of human Smad4 expressed in E coli. |
| **Modification** | Unmodified/Total |
| **Preparation and Storage** | Store at -20 degree C/1 year |

## IMAGES

**FCM/FACS (Flow Cytometry)**
Flow cytometric analysis of K562 cells using Smad4 Monoclonal Antibody (green) and negative control (purple).

**IF (Immunofluorescence)**
Immunofluorescence analysis of NIH/3T3 cells using Smad4 Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

**IHC (Immunohiostchemistry)**
Immunohistochemistry analysis of paraffin-embedded lung cancer tissues with DAB staining using Smad4 Monoclonal Antibody.

**WB (Western Blot)**
Western Blot analysis using Smad4 Monoclonal Antibody against A431 (1). SK-N-SH (2). K562 (3). HepG2 (4) and HUVE12 (5) cell lysate.

## ADDITIONAL INFORMATION

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| **Related Product Information for anti-Smad4 antibody** | This gene encodes a member of the Smad family of signal transduction proteins. Smad proteins are phosphorylated and activated by transmembrane serine-threonine receptor kinases in response to TGF-beta signaling. The product of this gene forms homomeric complexes and heteromeric complexes with other activated Smad proteins, which then accumulate in the nucleus and regulate the transcription of target genes. This protein binds to DNA and recognizes an 8-bp palindromic sequence (GTCTAGAC) called the Smad-binding element (SBE). The Smad proteins are subject to complex regulation by post-translational modifications. Mutations or deletions in this gene have been shown to result in pancreatic cancer, juvenile polyposis syndrome, and hereditary hemorrhagic telangiectasia syndrome. [provided by RefSeq, Oct 2009] |
| **Product Categories/Family for anti-Smad4 antibody** | Primary Antibodies |

## NCBI AND UNIPROT INFORMATION

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|---|---|
| **NCBI GI #** | 4885457 |
| **NCBI GeneID** | 4089 |
| **NCBI Accession #** | NP_005350.1 |
| **NCBI GenBank Nucleotide #** | NM_005359.5 |
| **UniProt Accession #** | Q13485; A8K405 |
| **Molecular Weight** | 60,439 Da |
| **NCBI Official Full Name** | mothers against decapentaplegic homolog 4 |
| **NCBI Official Synonym Full Names** | SMAD family member 4 |
| **NCBI Official Symbol** | SMAD4 |
| **NCBI Official Synonym Symbols** | JIP; DPC4; MADH4; MYHRS |
| **NCBI Protein Information** | mothers against decapentaplegic homolog 4; MAD homolog 4; SMAD, mothers against DPP homolog 4; deleted in pancreatic carcinoma locus 4; deletion target in pancreatic carcinoma 4; mothers against decapentaplegic, Drosophila, homolog of, 4 |
| **UniProt Protein Name** | Mothers against decapentaplegic homolog 4 |
| **UniProt Gene Name** | **SMAD4** |
| **UniProt Synonym Gene Names** | DPC4; MADH4; MAD homolog 4; Mothers against DPP homolog 4; SMAD 4; Smad4; hSMAD4 |
| **UniProt Entry Name** | SMAD4_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/smad4-antibody-flow-cytometry-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/320227