

Mouse SMAD2 Monoclonal Antibody | anti-SMAD2 antibody

SMAD2 (SMAD Family Member 2, JV18, JV18-1, MADH2, MADR2, MGC22139, MGC34440, hMAD-2, hSMAD2) (AP)

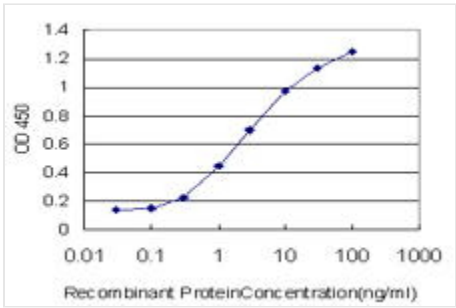
CATALOG # AAA25896	HOST Mouse	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

SMAD2; Monoclonal Antibody; SMAD2 (SMAD Family Member 2; JV18; JV18-1; MADH2; MADR2; MGC22139; MGC34440; hMAD-2; hSMAD2) (AP); SMAD Family Member 2; hSMAD2; anti-SMAD2 antibody

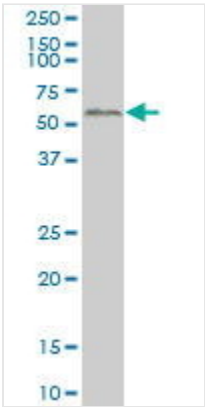
PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	3G9
Specificity	Recognizes SMAD2.
Purity/Purification	Purified
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Sequence Length	467
Applicable Applications for anti-SMAD2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	Applications are based on unconjugated antibody.
Immunogen	SMAD2 (AAH25699, 181aa-280aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	PRHTEILTELPLDDYTHSIPENTNFPAGIEPQSNYIPETPPPGYISEDGETSDQQLNQSMDTGSPAELSPTTLSPVNHSLDLQPVTYSEPAFWCSIYY
Conjugate	AP
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.



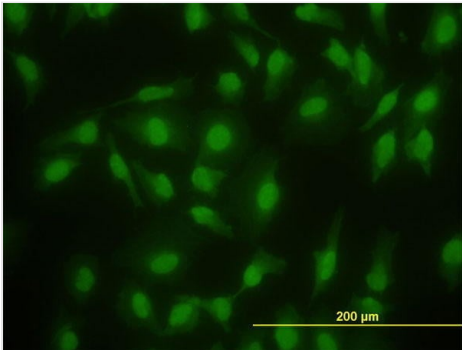
Application Data

Detection limit for recombinant GST tagged SMAD2 is approximately 0.1ng/ml as a capture antibody.



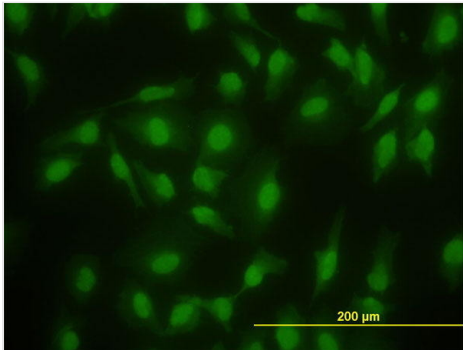
WB (Western Blot)

SMAD2 monoclonal antibody (M05), clone 3G9 Western Blot analysis of SMAD2 expression in HeLa S3 NE.



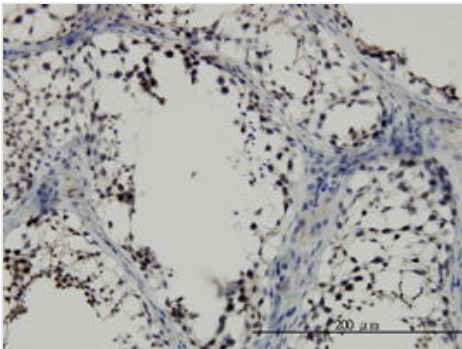
IF (Immunofluorescence)

Immunofluorescence of monoclonal antibody to SMAD2 on HeLa cell. [antibody concentration 10 ug/ml]



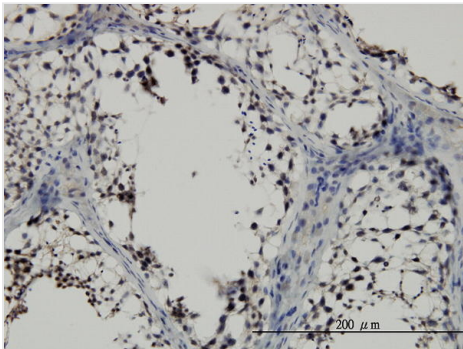
IF (Immunofluorescence)

Immunofluorescence of monoclonal antibody to SMAD2 on HeLa cell. [antibody concentration 10 ug/ml]



IHC (Immunohistochemistry)

Immunoperoxidase of monoclonal antibody to SMAD2 on formalin-fixed paraffin-embedded human testis. [antibody concentration 5 ug/ml]



Application Data

Immunoperoxidase of monoclonal antibody to SMAD2 on formalin-fixed paraffin-embedded human testis. [antibody concentration 5 ug/ml]

ADDITIONAL INFORMATION

Related Product Information for anti-SMAD2 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 signal of the transforming growth factor (TGF)-beta, and thus regulates multiple cellular processes, such as cell proliferation, apoptosis, and differentiation. This protein is recruited to the TGF-beta receptors through its interaction with the SMAD anchor for receptor activation (SARA) protein. In response to TGF-beta signal, this protein is phosphorylated by the TGF-beta receptors. The phosphorylation induces the dissociation of this protein with SARA and the association with the family member SMAD4. The association with SMAD4 is important for the translocation of this protein into the nucleus, where it binds to target promoters and forms a transcription repressor complex with other cofactors. This protein can also be phosphorylated by activin type 1 receptor kinase, and mediates the signal from the activin. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq]
Product Categories/Family for anti-SMAD2 antibody	Antibodies; Smad Proteins
References	1. Altered expression of p120catenin predicts poor outcome in invasive breast cancer. Talvinen K, Tuikkala J, Nykanen M, Nieminen A, Anttinen J, Nevalainen OS, Hurme S, Kuopio T, Kronqvist P.J Cancer Res Clin Oncol. 2010 Feb 12.

NCBI AND UNIPROT INFORMATION

NCBI GI #	19344008
NCBI GeneID	4087
NCBI Official Full Name	SMAD family member 2
NCBI Official Synonym Full Names	SMAD family member 2
NCBI Official Symbol	SMAD2
NCBI Official Synonym Symbols	JV18; MADH2; MADR2; JV18-1; hMAD-2; hSMAD2
NCBI Protein Information	mothers against decapentaplegic homolog 2

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.