



Smad2 mouse mAb

Catalog No	BYab-01094
Isotype	IgG
Reactivity	Human
Applications	WB;ICC
Gene Name	smad2
Protein Name	
Immunogen	Purified recombinant human Smad2 protein fragments expressed in E.coli.
Specificity	This antibody detects endogenous levels of Smad2 and does not cross-react with related proteins.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Dilution	wb 1:500 icc 1:100
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	hMAD 2;hMAD-2;hSMAD2;JV18 1;JV18;JV18;JV18-1;JV181;MAD;MAD;MAD homolog 2;MAD Related Protein 2;Mad-related protein 2;MADH2;MADR2;MGC22139;MGC34440;Mothers Against Decapentaplegic Homolog 2;Mothers Against Decapentaplegic Homolog 2;mothers against DPP homolog 2;OTTHUMP00000163489;Sma and Mad related protein 2;SMAD 2;SMAD;SMAD family member 2;SMAD, mothers against DPP homolog 2;SMAD2;SMAD2_HUMAN.
Observed Band	60kD
Cell Pathway	Cytoplasm . Nucleus . Cytoplasmic and nuclear in the absence of TGF-beta. On TGF-beta stimulation, migrates to the nucleus when complexed with SMAD4 (PubMed:9865696, PubMed:21145499). On dephosphorylation by phosphatase PPM1A, released from the SMAD2/SMAD4 complex, and exported out of the nucleus by interaction with RANBP1 (PubMed:16751101, PubMed:19289081). Localized mainly to the nucleus in the early stages of embryo development with expression becoming evident in the cytoplasm at the blastocyst and epiblast stages (By similarity). .

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Tissue Specificity	Expressed at high levels in skeletal muscle, endothelial cells, heart and placenta.
Function	disease:Defects in SMAD2 are found in sporadic cases of colorectal carcinoma.,function:Transcriptional modulator activated by TGF-beta and activin type 1 receptor kinase. SMAD2 is a receptor-regulated SMAD (R-SMAD). May act as a tumor suppressor in colorectal carcinoma.,PTM:Acetylated on Lys-19 by coactivators in response to TGF-beta signaling, which increases transcriptional activity. Isoform short: Acetylation increases DNA binding activity in vitro and enhances its association with target promoters in vivo.,PTM:In response to TGF-beta, ubiquitinated by NEDD4L; which promotes its degradation.,PTM:Phosphorylated on one or several of Thr-220, Ser-245, Ser-250, and Ser-255. In response to TGF-beta, phosphorylated on Ser-465/467 by TGF-beta and activin type 1 receptor kinases. Able to interact with SMURF2 when phosphorylated on Ser-465/467, recruiting other proteins, such as SNON, for degr
Background	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
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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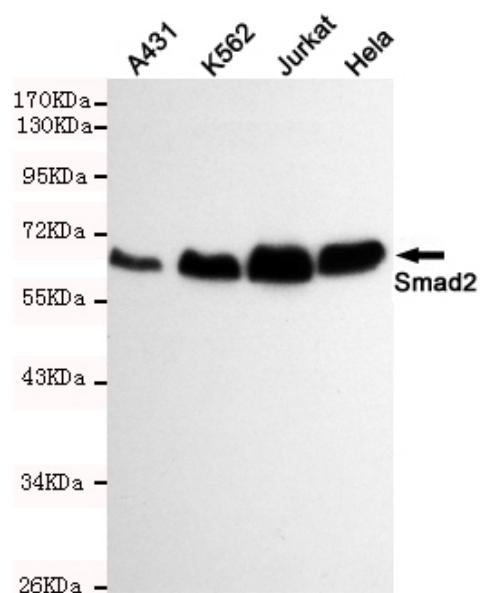
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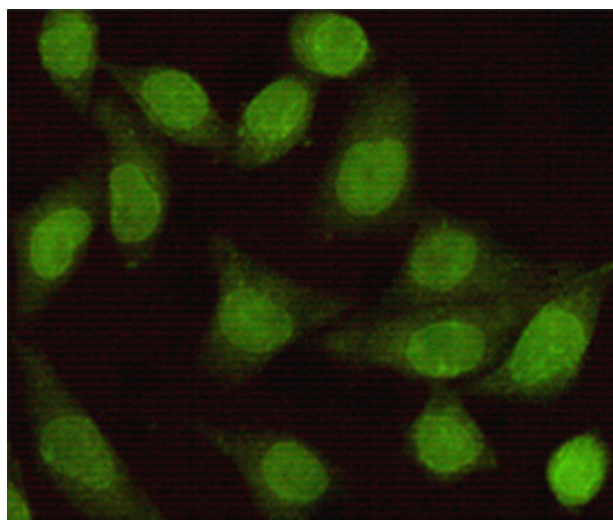
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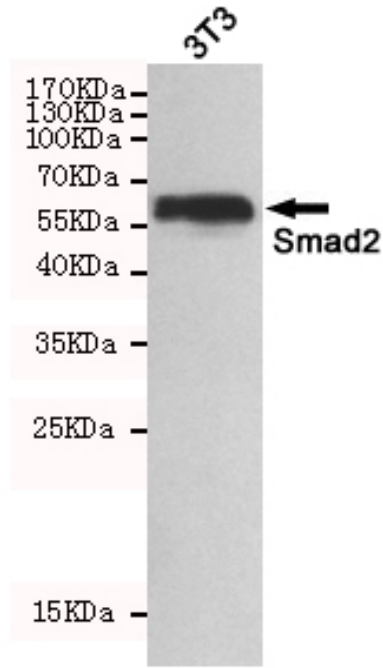
Products Images



Western blot detection of Smad2 in HeLa, A431, Jurkat and K562 cell lysates using Smad2 mouse mAb (1:500 diluted). Predicted band size: 60KDa. Observed band size: 60KDa.



Immunocytochemistry staining of HeLa cells fixed with 1% Paraformaldehyde and using Smad2 mouse mAb (dilution 1:100).



Western blot detection of Smad2 in 3T3 cell lysates using Smad2 mouse mAb (1:500 diluted). Predicted band size: 60KDa. Observed band size: 60KDa.