

Product datasheet for TA347047

SMAD2 Mouse Monoclonal Antibody [Clone ID: 6H5-E3-C11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	6H5-E3-C11
Applications:	IF, WB
Recommend Dilution:	WB: 1:500, IF: 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	The immunogen for SMAD2 antibody: purified recombinant human Smad2 protein fragments expressed in E.coli.
Formulation:	ascites
Predicted Protein Size:	60 kDa
Gene Name:	SMAD family member 2
Database Link:	NP_001003652 Entrez Gene 4087 Human
Background:	<p>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 have been observed for this gene. [provided by RefSeq, May 2012]</p>
Synonyms:	hMAD-2; hSMAD2; JV18; JV18-1; MADH2; MADR2

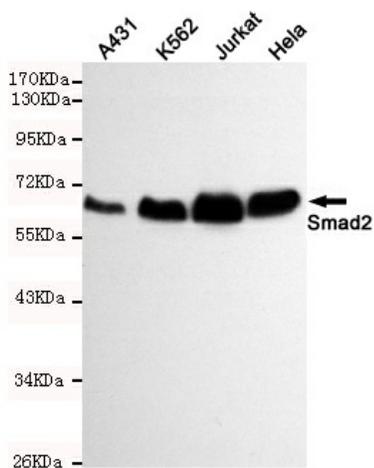


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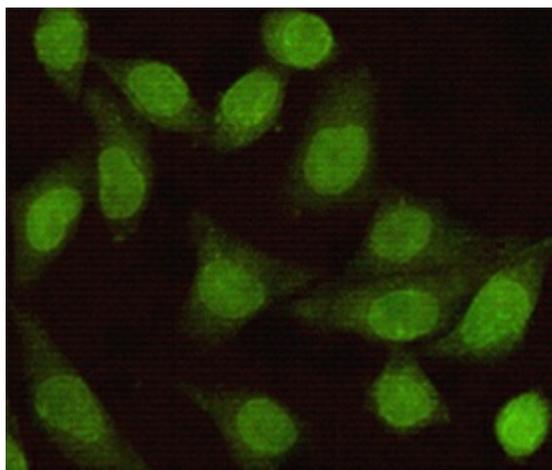
Protein Families: Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Stem cell relevant signaling - JAK/STAT signaling pathway, Stem cell relevant signaling - TGFb/BMP signaling pathway, Transcription Factors

Protein Pathways: Adherens junction, Cell cycle, Colorectal cancer, Pancreatic cancer, Pathways in cancer, TGF-beta signaling pathway, Wnt signaling pathway

Product 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).