

Smad2/3 rabbit pAb

Cat No.: ES3461

For research use only

Overview

Product Name Smad2/3 rabbit pAb

Host species Rabbit

Applications WB;IHC;IF;ELISA

Species Cross-Reactivity Human; Mouse; Rat; Monkey **Recommended dilutions** Western Blot: 1/500 - 1/2000.

Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications. The antiserum was produced against synthesized

Immunogen The antiserum was produced against synthesized

peptide derived from human Smad2/3. AA

range:1-50

Specificity Smad2/3 Polyclonal Antibody detects endogenous

levels of Smad2/3 protein.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and

0.02% sodium azide.

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name Mothers against decapentaplegic homolog 2/3

Gene Name SMAD2/SMAD3

Cellular localization 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/SMAD

Purification The antibody was affinity-purified from rabbit

antiserum by affinity-chromatography using

epitope-specific immunogen.

ClonalityPolyclonalConcentration1 mg/mlObserved band48kD

Human Gene ID 4087/4088 Human Swiss-Prot Number Q15796/P84022

Alternative Names SMAD2; MADH2; MADR2; Mothers against

decapentaplegic homolog 2; MAD homolog 2;

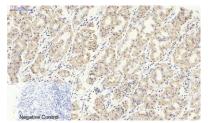


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Background

Mothers against DPP homolog 2; JV18-1; Mad-related protein 2; hMAD-2; SMAD family member 2; SMAD 2; Smad2; hSMAD2; SMAD3; MADH3; Mothers against decapentaplegic 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

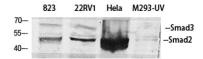


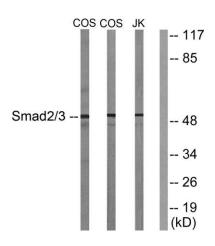
Immunohistochemical analysis of paraffin-embedded Human-stomach tissue. 1,Smad2/3 Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(roo





Western Blot analysis of various cells using Smad2/3 Polyclonal Antibody diluted at 1:500





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Western blot analysis of lysates from COS7 and Jurkat cells, treated with UV 15', using Smad2/3 Antibody. The lane on the right is blocked with the synthesized peptide.

