# Anti-SMAD2/3 Antibody

**CATALOG NO:** A1214-100

**ALTERNATIVE NAMES:** SMAD2; MADH2; MADR2; Mothers against decapentaplegic homolog 2; MAD homolog 2; 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 homolog 3; MAD homolog 3; Mad3; Mothers against DPP homolog 3; hMAD-3; JV15-2; SMAD family member 3; SMAD 3; Smad3; hSMAD3

**AMOUNT:** 100 µl

**IMMUNOGEN:** KLH-conjugated synthetic peptide encompassing a sequence within the center region of human SMAD2/3

**HOST/ISOTYPE:** Rabbit IgG

**CLONALITY:** Polyclonal

**SPECIFICITY:** Recognizes endogenous levels of SMAD2/3 protein

**SPECIES REACTIVITY:** Human, Mouse and Rat

**PURIFICATION:** The antibody was purified by affinity chromatography

**FORM:** Liquid

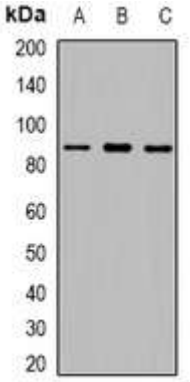
**FORMULATION:** Supplied in 0.42% Potassium phosphate; 0.87% Sodium chloride; pH 7.3; 30% glycerol and 0.01% sodium azide

**STORAGE CONDITIONS:** Shipped at 4°C. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles

**DESCRIPTION:** Receptor-regulated SMAD (R-SMAD) that is an intracellular signal transducer and transcriptional modulator activated by TGF-beta (transforming growth factor) and activin type 1 receptor kinases. Binds the TRE element in the promoter region of many genes that are regulated by TGF-beta and, on formation of the SMAD2/SMAD4 complex, activates transcription. May act as a tumor suppressor in colorectal carcinoma. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator.

**APPLICATION:** WB; 1:500 – 1:2000

**Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.**




**Western blot analysis of SMAD2/3 (AcK19) expression in HeLa (A); NIH3T3 (B); PC12 (C) whole cell lysates**

**RELATED PRODUCTS:**

- Smad1 Antibody **(Cat. No. 3461-100)**
- Smad4 Antibody **(Cat. No. 3464-100)**
- Smad5 Antibody **(Cat. No. 3465-100)**
- Smad6 Antibody **(Cat. No. 3466-100)**
- Smad7 Antibody **(Cat. No. 3670-100)**

***FOR RESEARCH USE ONLY! Not to be used on humans.***