

## Product datasheet for **TA385275M**

### SMAD2 Mouse Polyclonal Antibody

#### Product data:

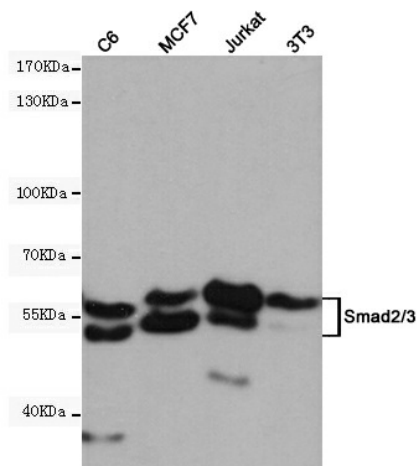
|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Applications:           | IHC, WB  |
| Recommended Dilution:   | WB: 1/1000   |
| Reactivity:             | Human, Rat, Mouse  |
| Host:                   | Mouse  |
| Isotype:                | IgG  |
| Clonality:              | Polyclonal   |
| Immunogen:              | Recombinant Protein of Smad3   |
| Formulation:            | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.03% Proclin 300, pH 7.3.   |
| Concentration:          | lot specific   |
| Purification:           | Affinity Purified  |
| Conjugation:            | Unconjugated   |
| Storage:                | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.   |
| Stability:              | 1 year   |
| Predicted Protein Size: | Observed MW(kDa):52/60   |
| Gene Name:              | SMAD family member 2   |
| Database Link:          | <a href="#">Entrez Gene 4087 Human P84022</a>  |
| Background:             | <p>Swiss-Prot Acc.P84022.Members of the Smad family of signal transduction molecules are components of a critical intracellular pathway that transmit TGF-<math>\beta</math> signals from the cell surface into the nucleus. Three distinct classes of Smads have been defined: the receptor-regulated Smads (R-Smads), which include Smad1, 2, 3, 5, and 8; the common-mediator Smad (co-Smad), Smad4; and the antagonistic or inhibitory Smads (I-Smads), Smad6 and 7 .</p> <p>Activated type I receptors associate with specific R-Smads and phosphorylate them on a conserved carboxy terminal SSXS motif. The phosphorylated R-Smad dissociates from the receptor and forms a heteromeric complex with the co-Smad (Smad4), allowing translocation of the complex to the nucleus. Once in the nucleus, Smads can target a variety of DNA binding proteins to regulate transcriptional responses .</p> |



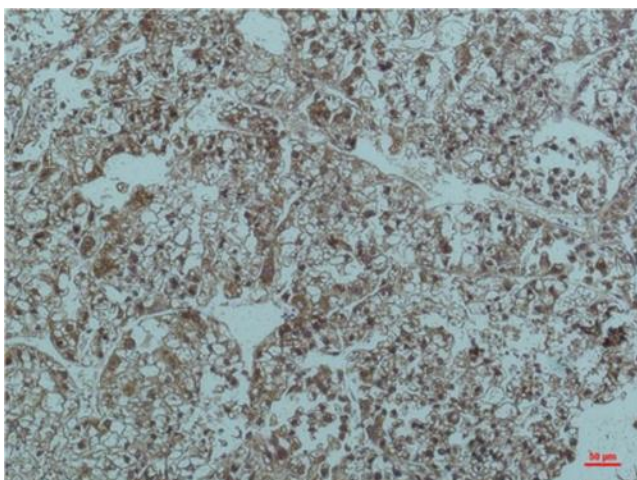
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**Synonyms:** hMAD-2; hSMAD2; JV18; JV18-1; MADH2; MADR2; MGC22139; MGC34440

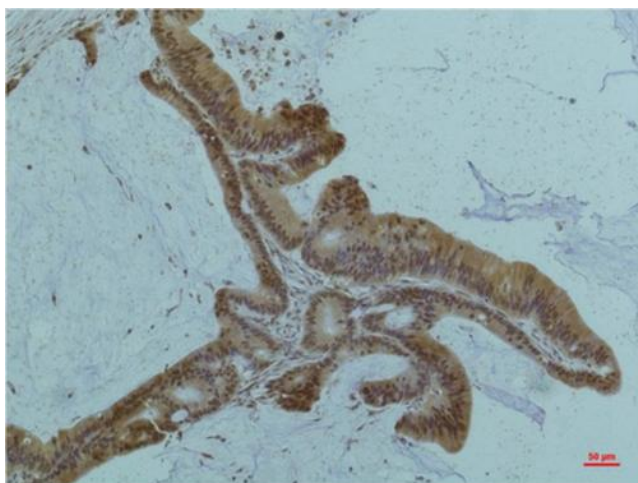
**Product images:**



Western blot analysis of extracts from C6, MCF7, Jurkat and 3T3 cell lysates using Smad2/3 mouse mAb (1:500 diluted). Predicted band size: 52/6KDa. Observed band size: 52/6KDa.



Immunohistochemistry analysis of paraffin-embedded Human Liver tissue using Smad2/3 (6F7) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Immunohistochemical analysis of paraffin-embedded Human Colon Carcinoma using Smad2/3 Mouse mAb diluted at 1:200.