

---

## **Smad2 Antibody**

**Subcategory:** Rabbit Polyclonal Antibody

**Cat. No.:** 250860

**Unit:** 0.1 mg

### **Description:**

SMAD2 (Mothers against decapentaplegic homolog 2, SMAD 2, Mothers against DPP homolog 2) is a polypeptide that, as its name describes, is a homolog of the Drosophila gene: "Mothers against decapentaplegic". It belongs to the SMAD family of proteins, which belong to the TGF- $\beta$  superfamily of modulators. Like many other TGF- $\beta$  family members, SMAD2 is involved in cell signalling. SMAD2 modulates signals of activin and TGF- $\beta$  proteins. It interacts with SMAD anchor for receptor activation (SARA). The binding of ligands causes the phosphorylation of the SMAD2 protein and the dissociation from SARA and the association with SMAD4. It is subsequently transferred to the nucleus where it forms complexes with other proteins and acts as a transcription factor. SMAD2 is a receptor regulated SMAD (R-SMAD) and is activated by bone morphogenetic protein type 1 receptor kinase.

**Isotype:** Rabbit Ig

**Applications:** E, WB, IHC

**Species Reactivity:** H, M, R, Ck, B

**Format:** Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4 with 0.09% sodium azide. Antibody was purified by Protein-G affinity chromatography.

**Alternate Names:** SMAD2; Mothers against decapentaplegic homolog 2; Mothers against DPP homolog 2; Mad-related protein 2; hMAD-2; MADH2; MADR2

**Accession No.:** Q15796

**Antigen:** KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Smad2.

**Application Notes:** E: 1:500-1:1,000; WB: 1:100-1:500; IHC: 1:100-1:500

**Storage:** Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.