

Recombinant

DGRmAb®

Smad2 (DGR14761) Rabbit mAb

db11807

Package : 10μL 20μL 50μL 100μL

Product Name : Smad2 (DGR14761) Rabbit mAb**Cat.No.:** db11807**Synonyms :** JV18; MADH2; MADR2; JV18-1; hMAD-2; hSMAD2**Application :** WB, IHC-P, ICC/IF, FC, IP**Reactivity :** Human,Rat**Host species :** Rabbit**Background**

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]

Immunogen

A synthetic peptide of human Smad2

Gene ID

4087

Swiss Prot

Q15796

Synonyms

JV18; MADH2; MADR2; JV18-1; hMAD-2; hSMAD2

Reactivity

Human,Rat

Application

WB, IHC-P, ICC/IF, FC, IP

Recommended dilution

WB: 1:1000-1:5000

IHC-P: 1:50

ICC/IF: 1:100-1:200

FC: 1:20-1:100

IP: 1:20-1:50

Calculated MW

52 kDa

Observed MW

52 kDa

Host species

Rabbit

Clonality

Monoclonal

Clonality No.

DGR14761

Isotype

IgG

Purity

Affinity Purification

Conjugation

Un-conjugated

Storage Stability

Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.

- Western blot detection of Smad2 in Hela, CHO-K1, Jurkat cell lysates using Smad2 antibody(1:500 diluted).
- Immunohistochemical analysis of paraffin-embedded human lung cancer using db11807 antibody.
- Immunofluorescent analysis of HeLa cells using db11807 antibody (green), and DAPI (blue).