



Recombinant

DGRmAb[®]

Phospho-Smad2 (Ser255) (DGR13512) Rabbit mAb

db11942 Package : 10μL 20μL 50μL 100μL

Product Name: Phospho-Smad2 (Ser255) (DGR13512) Rabbit mAb

Cat.No.: db11942

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

Application : WB, IHC-P, IP **Reactivity :** Human, Mouse, 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 phosphopeptide corresponding to residues surrounding Ser255 of human Smad2

Gene ID 4087

Swiss Prot Q15796

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

Reactivity Human, Mouse, Rat

Application WB, IHC-P, IP

Recommended dilution WB: 1:1000-1:5000

IHC-P: 1:50-1:100

IP: 1:50-1:100

Calculated MW 52 kDa





Observed MW 60 kDa

Host species Rabbit

Clonality Monoclonal

Clonality No. DGR13512

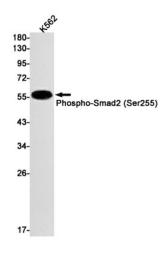
Isotype IgG

Purity Affinity Purification

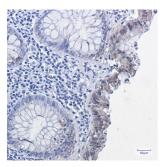
Conjugation Un-conjugated

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 Phospho-Smad2 (Ser255) in K562 cell lysates using Phospho-Smad2 (Ser255) antibody(1:1000 diluted).



Immunohistochemical analysis of paraffin-embedded human colon cancer using db11942 antibody.