Recombinant DGRmAb®

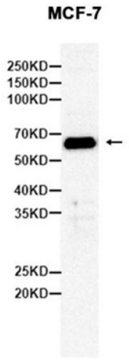
Smad2 (DGR13182) Rabbit mAb

db15633 **Package : 10μL 20μL 50μL 100μL**

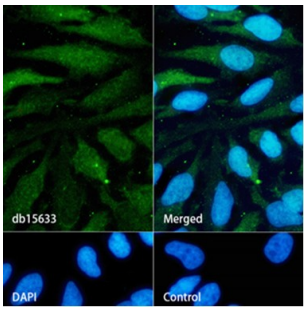
Product Name : Smad2 (DGR13182) Rabbit mAb
Cat.No.: db15633
Synonyms : JV18; MADH2; MADR2; JV18-1; hMAD-2; hSMAD2
Application : WB, ICC/IF, FC
Reactivity : Human,Mouse,Rat
Host species : Rabbit

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 peptide of human Smad2
Gene ID	4087
Swiss Prot	Q15796
Synonyms	JV18; MADH2; MADR2; JV18-1; hMAD-2; hSMAD2
Reactivity	Human,Mouse,Rat
Application	WB, ICC/IF, FC
Recommended dilution	WB: 1:1000 ICC/IF: 1:100-1:200 FC: 1:100
Calculated MW	52 kDa

Observed MW	52 kDa
Host species	Rabbit
Clonality	Monoclonal
Clonality No.	DGR13182
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 analysis of extracts from MCF-7 cells using db15633 at 1:1000.



Immunofluorescence analysis of HeLa cells labelling Smad2 with db15633.

The cells were fixed with cold 100% methanol (10min, 4℃) and blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween 20 for 1h. The cells were then incubate with db15633 (1:50) at room temprature for 1h, followed by a further incubation at room temperature for 45min with Goat Anti Rabbit IgG (H+L)-AF488 (db10005, shown in green). Nuclear DNA was labeled in blue with DAPI.

Control: Secondary antibody only.