







Smad4 (DGR16727) Rabbit mAb

db12494 Package : 10μL 20μL 50μL 100μL

Product Name: Smad4 (DGR16727) Rabbit mAb

Cat.No.: db12494

Synonyms: JIP; DPC4; MADH4; MYHRS

Application: WB, IHC-P

Reactivity: Human, Mouse, Rat

Host species: Rabbit

Background

This gene encodes a member of the Smad family of signal transduction proteins. Smad proteins are phosphorylated and activated by transmembrane serine-threonine receptor kinases in response to transforming growth factor (TGF)-beta signaling. The product of this gene forms homomeric complexes and heteromeric complexes with other activated Smad proteins, which then accumulate in the nucleus and regulate the transcription of target genes. This protein binds to DNA and recognizes an 8-bp palindromic sequence (GTCTAGAC) called the Smad-binding element (SBE). The protein acts as a tumor suppressor and inhibits epithelial cell proliferation. It may also have an inhibitory effect on tumors by reducing angiogenesis and increasing blood vessel hyperpermeability. The encoded protein is a crucial component of the bone morphogenetic protein signaling pathway. The Smad proteins are subject to complex regulation by post-translational modifications. Mutations or deletions in this gene have been shown to result in pancreatic cancer, juvenile polyposis syndrome, and hereditary hemorrhagic telangiectasia syndrome. [provided by

RefSeq, Aug 2017]

Immunogen A synthetic peptide of human Smad4

Gene ID 4089

Swiss Prot Q13485

Synonyms JIP; DPC4; MADH4; MYHRS

Reactivity Human, Mouse, Rat

Application WB, IHC-P

Recommended dilution WB: 1:1000-1:5000

IHC-P: 1:100

Calculated MW 60 kDa

Observed MW 70 kDa



For Research Use Only **Product Datasheet**

Host species Rabbit

Clonality Monoclonal

Clonality No. DGR16727

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.

kDa 250 -150 -100 -75 -50 -37 -25 -20 -

> 15 -10 -

Western blot analysis of extracts from Ramos cells using db12494 at 1:1000.