

Anti-Phospho-Smad1 (Ser463/Ser465) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013814

Product Information

Application	WB, ELISA
Reactivity	Human, Rat, Mouse
Dilution	WB 1:1,000~1:2,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	75G24K17
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Ser463/Ser465 of human Smad1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-Smad1 (Ser463/Ser465) Rabbit mAb [75G24K17] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	BSP-1, JV4-1, MADH1, MADR1, Smad1 (phospho S463), p-Smad1 (Ser463), Mothers against decapentaplegic homolog 1, Dwarf1 A, DwfA, hSMAD 1, MAD mothers against decapentaplegic homolog 1, Mad related protein 1, Mothers against DPP homolog 1, Sma and Mad related protein 1, SMAD-1, SMAD family member 1, SMAD mothers against DPP homolog 1 Drosophila, Spinal muscular atrophy distal with upper limb predominance, TGF beta signaling protein 1, SMAD1_HUMAN, MAD homolog 1, Mad-related protein 1, Transforming growth factor-beta-signaling protein 1.
Calculated MW	Calculated MW: 52 kDa; Observed MW: 60 kDa
Uniprot ID	Q15797
Gene ID	4086
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 signals of the bone morphogenetic proteins (BMPs), which are involved in a range of biological activities including cell growth, apoptosis, morphogenesis, development and immune responses. In response to BMP ligands, this protein can be phosphorylated and activated by the BMP receptor kinase. The phosphorylated form of this protein forms a complex with SMAD4, which is important for its function in the transcription regulation. This protein is a target for SMAD-specific E3 ubiquitin ligases, such as SMURF1 and SMURF2, and undergoes ubiquitination and proteasome-mediated degradation. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq, Jul 2008]



Western Blot - Anti-Phospho-Smad1 (Ser463/Ser465) Rabbit mAb [75G24K17]

All lanes: R013814 at 1:1,000 dilution

Lane 1: HCT116 (human colorectal carcinoma epithelial cell) whole cell lysates

Lane 2: RAW264.7 (mouse mononuclear macrophage leukemia epithelial cell)

Lane 3: HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysates

Lane 4: SW620 (human colorectal carcinoma epithelial cell) whole cell lysates

Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 52 kDa

Observed band size: 60 kDa

Developed using the ECL technique (Cat. No. SQ201).