

Anti-SMAD1(Sma- and Mad-related protein 1) Polyclonal Antibody

Cat. #: 60B866

Description:

The SMAD1 (Sma- and Mad-related protein 1) 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, SMAD1 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. SMAD1 is a target for SMAD-specific E3 ubiquitin ligases, such as SMURF1 and SMURF2, and undergoes ubiquitination and proteasome-mediated degradation.

Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to N-terminal residues of human SMAD1(Sma- and Mad-related protein 1)

References

Abe,H., et al, J. Biol. Chem. 279 (14), 14201-14206 (2004)
Li,L., et al, Mol. Cell. Biol. 24 (2), 856-864 (2004)
Harada,J., et al, J. Biol. Chem. 278 (40), 38998-39005 (2003)
Jiao,K, et al, Mol. Cell. Biol. 22 (21), 7633-7644 (2002)
Rodriguez,C., et al, J. Biol. Chem. 276 (32), 30224-30230 (2001)
Yoshida,Y., et al, Cell 103 (7), 1085-1097 (2000)

Clone Number:

Isotype:

Species: Human

Storage and Stability: at -20oC

Storage buffer:

This antibody is stored in PBS, 0.01% sodium azide and 50% glycerol.

Preparation:

Purified by antigen-specific affinity chromatography.

Applications :

ELISA

Western Blotting (1µg/ml for 2hrs)