

Mouse Monoclonal Antibody to SMAD1

Catalogue Number sAP-1365

Target Molecule **Name:** SMAD1

Aliases: BSP1; JV41; BSP-1; JV4-1; MADH1; MADR1

MW: 52kDa

Entrez Gene ID: 4086

Description 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

Immunogen Purified recombinant fragment of human SMAD1 (AA: 1-110) expressed in E. Coli.

Recitative Species Human; Mouse; Monkey;

Clone MM4E12H10;

Size and Concentration 100µg/1mg/ml

Supplied as Lyophilized Powder from 100µl of Purified antibody in PBS with 0.05% sodium azide

Reconstitution/Storages Reconstituted with 100µl sterile DI H2O, at stored at 4°C or -20°C for short or long term storage

Applications ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: ; ICC: ; FCM:

Shipping Regular FEDEX overnight shipment (ambient temperature)

Reference 1. *Histol Histopathol.* 2011 Apr;26(4):531-41. ; 2. *Blood.* 2011 Jun 16;117(24):6489-97.;

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**