

Product Data Sheet: Phospho-Smad1 (S465)

Cat. No: ABP-0268

Conjugate: Unconjugated

Size: 100 ug

Clone: Poly

Concentration: 1mg/ml

Host: Rb

Isotype: IgG

Immunogen: A phospho specific peptide corresponding to residues surrounding S465 of human

SMAD1.

Reactivity: Hu, Ms, Rt

Applications: Western Blot: 1:1000

Molecular Weight: 15kDa/52kDa

Purification: Affinity purification

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

Background:

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.

Form: liquid

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3

Storage: Store at -20°C. Avoid freeze / thaw cycles.

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