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Datasheet for ABIN746035

anti-Smad1/5 antibody (pSer463, pSer465) (Biotin)

Overview

Quantity:	100 µL
Target:	Smad1/5 (SMAD1/5)
Binding Specificity:	pSer463, pSer465
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Smad1/5 antibody is conjugated to Biotin
Application:	Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), ELISA

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human Smad1/5 around the phosphorylation site of Ser463/465
Isotype:	IgG
Specificity:	This phosphorylation site is homologous in the listed cross reactive species at the specified location.
Cross-Reactivity:	Mouse, Rat
Predicted Reactivity:	Human
Purification:	Purified by Protein A.

Target Details

Target: Smad1/5 (SMAD1/5)

Alternative Name: Smad1/5 + ([SMAD1/5 Products](#))

Background: Synonyms: Smad1 phospho S463/465, Smad1 phospho Ser463/465, p-Smad1 Ser463/465, Mothers against decapentaplegic homolog 1, BSP 1, BSP1, BSP-1, Dwarf1 A, DwfA, hSMAD 1, hSMAD1, JV 41, JV4 1, JV4-1, JV41, MAD mothers against decapentaplegic homolog 1, Mad related protein 1, MADH 1, MADH1, Madr 1, MADR1, Mothers against decapentaplegic homolog 1, Mothers against DPP homolog 1, Sma and Mad related protein 1, SMAD 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, Transforming growth factor beta signaling protein 1, SMAD1_HUMAN, MAD homolog 1, Mothers against DPP homolog 1, Mad-related protein 1, SMAD family member 1, Smad1, Transforming growth factor-beta-signaling protein 1.

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].

Gene ID: 4086, 4090

Application Details

Application Notes: WB 1:300-5000
IHC-P 1:200-400
IHC-F 1:100-500

Restrictions: For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C for 12 months.
Expiry Date:	12 months