

Catalog: OM105588



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Rabbit anti-SMAD1 polyclonal antibody - middle region

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100ug

Product profile

Product name	Rabbit anti-SMAD1 polyclonal antibody - middle region
Antibody Type	Primary Antibodies
Immunogen	The immunogen for anti-SMAD1 antibody: synthetic peptide directed towards the middle region of huma
	n SMAD1

Key Feature

Clonality	Polyclonal
lsotype	lgG
Host Species	Rabbit
Tested Applications	WB
Species Reactivity	Bovine Dog Horse Human Mouse Pig Rabbit Rat
Concentration	1 mg/ml
Purification	Affinity purified

Target Information

Gene Symbol	SMAD1
Gene Synonyms	BSP1; JV4-1; JV41; MADH1; MADR1; BSP-1
Gene Full Name	SMAD family member 1
Gene Summary	SMAD1 belongs to the SMAD family. SMAD proteins are signal transducers and transcriptional modulator
	s that mediate multiple signaling pathways. SMAD1 mediates the signals of the bone morphogenetic prot
	eins (BMPs), which are involved in a range of biological activities including cell growth, apoptosis, morpho
	genesis, development and immune responses. In response to BMP ligands, SMAD1 can be phosphorylate
	d and activated by the BMP receptor kinase. The phosphorylated form of SMAD1 forms a complex with S
	MAD4, which is important for its function in the transcription regulation. SMAD1 is a target for SMAD-spe
	cific E3 ubiquitin ligases, such as SMURF1 and SMURF2, and undergoes ubiquitination and proteasome-
	mediated degradation. The protein encoded by this gene belongs to the SMAD, a family of proteins simila

	r to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegan
	s gene Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple si
	gnaling pathways. This protein mediates the signals of the bone morphogenetic proteins (BMPs), which a
	re involved in a range of biological activities including cell growth, apoptosis, morphogenesis, developmen
	$t \mbox{ and immune responses.}$ In response to BMP ligands, this protein can be phosphorylated and activated b
	y 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 \ensuremath{u}
	biquitin ligases, such as SMURF1 and SMURF2, and undergoes ubiquitination and proteasome-mediated
	degradation. Alternatively spliced transcript variants encoding the same protein have been observed. The
	protein encoded by this gene belongs to the SMAD, a family of proteins similar to the gene products of t
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	ological activities including cell growth, apoptosis, morphogenesis, development and immune responses. I
	n response to BMP ligands, this protein can be phosphorylated and activated by the BMP receptor kinase
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	n in the transcription regulation. This protein is a target for SMAD-specific E3 ubiquitin ligases, such as S
	MURF1 and SMURF2, and undergoes ubiquitination and proteasome-mediated degradation. Alternatively
	spliced transcript variants encoding the same protein have been observed.
Alternative Names	BSP1, JV4-1, JV41, MADH1, MADR1, BSP-1
Molecular Weight (MW)	52kDa

Sequence	465 amino acids

Database Links

Entrez Gene	4086	
SwissProt ID	Q15797	
Protein Accession	NP_005891	

Application



 Application Notes
 WB:1:500~1:2000

 Notes:Optimal dilutions/concentrations should be determined by the researcher.

Additional Information

Form	Liquid
Storage Instructions	Aliquot and store at -20°C. Avoid repeated freeze / thaw cycles
Storage Buffer	phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Note	The product is for research use only,not for use in diagnostic or therapeutic procedures.

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