For Research Use Only

SMAD7 Monoclonal antibody

Catalog Number:66478-1-lg 9 Publications

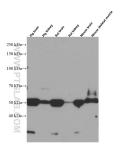


Basic Information	Catalog Number: 66478-1-lg	GenBank Accession Number: BC074819	Purification Method: Protein A purification
	Size:	GeneID (NCBI):	CloneNo.:
	1800 µg/ml	4092	2B9A4
	Source:	UNIPROT ID:	Recommended Dilutions:
	Mouse	015105	WB 1:500-1:3000 IHC 1:50-1:500
	Isotype: IgG2b	Full Name: SMAD family member 7	
	Immunogen Catalog Number: AG13688	Calculated MW: 426 aa, 46 kDa	
		Observed MW: 50 kDa	Observed MW:
Applications	Tested Applications:	Positive Controls:	
	IHC, WB, ELISA Cited Applications: WB	WB : pig brain tissue, pig kidney tissue, rat brain tissu rat kidney tissue, mouse brain tissue, mouse skeletal muscle tissue	
	Species Specificity: Human, mouse, rat, pig	IHC : n	nouse cerebellum tissue, human kidney tissue
	Cited Species: human, mouse, rat		
	Note-IHC: suggested antige TE buffer pH 9.0; (*) Alterna retrieval may be performed buffer pH 6.0	atively, antigen	
	SMAD7, also named as Mothers against decapentaplegic homolog 7, is a 426 amino acid protein, which belongs to the dwarfin/SMAD family. SMAD7 Interaction with NEDD4L or RNF 111 induces translocation from the nucleus to the cytoplasm (PubMed:16601693). TGF-beta stimulates its translocation from the nucleus to the cytoplasm (PubMed:16601693). TGF-beta stimulates its translocation from the nucleus to the cytoplasm in response to TGF-beta (PubMed:17327236). SMAD7 as antagonist of signaling by TGF-beta (transforming growth factor) type 1 receptor superfamily members has been shown to inhibit TGF-beta (Transforming growth factor) and activin signaling by associating with their receptors thus preventing SMAD2 access. SMAD7 functions as an adapter to recruit SMURF2 to the TGF-beta receptor complex and also acts by recruiting the PPP1R15A-PP1 complex to TGFBR1, which promotes its dephosphorylation. SMAD7 positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator.		
Background Information	inhibits its translocation from the antagonist of signaling by TGF-be shown to inhibit TGF-beta (Transf thus preventing SMAD2 access. SN and also acts by recruiting the PPF positively regulates PDPK1 kinase	nucleus to the cytoplasm in respon ta (transforming growth factor) typ orming growth factor) and activin MAD7 functions as an adapter to rep P1R15A-PP1 complex to TGFBR1, w	nse to TGF-beta (PubMed:17327236). SMAD7 as be 1 receptor superfamily members has been signaling by associating with their receptors cruit SMURF2 to the TGF-beta receptor complex hich promotes its dephosphorylation. SMAD7
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Selected Validation Data





Various lysates were subjected to SDS PAGE followed by western blot with 66478-1-Ig (SMAD7 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours. Immunohistochemical analysis of paraffinembedded mouse cerebellum tissue slide using 66478-1-Ig (SMAD7 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).