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## SMAD7 Polyclonal antibody Catalog Number:25840-1-AP Featured Product 102 Publications

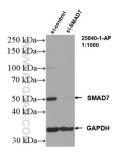


Basic Information	Catalog Number: 25840-1-AP	GenBank Accession Num BC074819		Purification Method: Antigen affinity purification
	25840-1-AP Size: 150ul, Concentration: 500 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG13688	BC074819 GeneID (NCBI): 4092 UNIPROT ID: 015105 Full Name: SMAD family me Calculated MW: 426 aa, 46 kDa Observed MW: 45-55 kDa	ember 7	Antigen affinity purification Recommended Dilutions: WB 1:500-1:3000 IHC 1:50-1:500
Applications	Tested Applications:	Positive Controls: WB : HEK-293 cells, HepG2 cells, NIH/3T3 cells, MCF- 7cells, SH-SY5Y cells, SW480 cells		
	WB, IHC, ELISA Cited Applications:			
	WB, IHC, IF, IP, CoIP Species Specificity:		se liver tissue,	
	human, mouse Cited Species:			
	human, mouse, rat, pig			
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			
Background Information	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 RNF111 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 type 1 receptor superfamily members has been shown to inhibit TGF-beta 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.			
Notable Publications	Author Pu	ıbmed ID	Journal	Application
	Hongjuan Yao 36	5127339	Nat Commun	WB
	Qian Zhang 30	0230565	J Cell Biochem	WB
	Yongzhong Mao 34	4525946	J Physiol Sci	WB,CoIP
Storage	Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Aliquoting is unnecessary for -20°C storage			
*** 20ul sizes contain 0.1% BSA	Auquoting is unnecessary for -20 C	Storage		
For technical support and original validation da T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free	ta for this product please contact: E: proteintech@ptglab.com		This product is exclusively available under Proteinter Group brand and is not available to purchase from an	

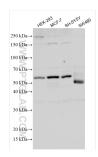
W: ptglab.com in USA), or 1(312) 455-8498 (outside USA)

other manufacturer.

## Selected Validation Data



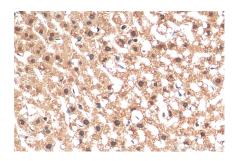
WB result of SMAD7 antibody (25840-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SMAD7 transfected HepG2 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 25840-1-AP (SMAD7 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded mouse liver tissue slide using 25840-1-AP (SMAD7 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse liver tissue slide using 25840-1-AP (SMAD7 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).