For Research Use Only

SMAD7 Monoclonal antibody, PBS Only

Catalog Number:68594-1-PBS

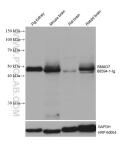
proteintech®
Antibodies ELISA kits Proteins
www.ptglab.com

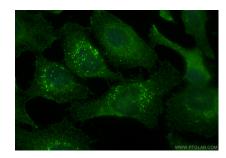
Basic Information	Catalog Number: 68594-1-PBS	GenBank Accession Number: BC074819	Purification Method: Protein A purification	
	Size: 1mg/ml	GeneID (NCBI): 4092	CloneNo.: 3D1C3	
	Source: Mouse	UNIPROT ID: O15105		
	Isotype: IgG2a	Full Name: SMAD family member 7		
	Immunogen Catalog Number: AG13688	Calculated MW: 426 aa, 46 kDa		
		Observed MW: 45-55 kDa		
Applications	Tested Applications: WB, IF/ICC, FC (Intra), Indirect ELISA			
	Species Specificity: human, mouse, rat, pig, rabbit			
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.			
Storage	Storage: Store at -80°C. The product is shipped with ice packs. Upon receipt, store it immediately at -80°C Storage Buffer: PBS Only			

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

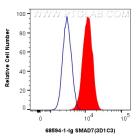
Selected Validation Data





Various lysates were subjected to SDS PAGE followed by western blot with 68594-1-1g (SMAD7 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control. This data was developed using the same antibody clone with 68594-1-PBS in a different storage buffer formulation.

Immunofluorescent analysis of (4% PFA) fixed HeLa cells using SMAD7 antibody (68594-1-1g, Clone: 3D1C3) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). This data was developed using the same antibody clone with 68594-1-PBS in a different storage buffer formulation.



1x10^6 U2OS cells were intracellularly stained with 0.25 ug SMAD7 Monoclonal antibody (68594-1-Ig, Clone:3D1C3) and CoraLite® 488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.25 ug Mouse IgC2a isotype control Mouse McAb (66360-2-Ig, Clone: 11A1B2) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 68594-1-PBS in a different storage buffer