For Research Use Only

Phospho-SMAD2 (Ser465/467) Recombinant antibody

Catalog Number:80427-2-RR 1 Publications

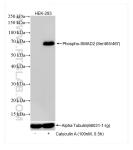


Basic Information	Catalog Number: 80427-2-RR	GenBank Accession Number: BC014840		Purification Method: Protein A purfication	
	Size: 1000 µg/ml	GenelD (NCBI) 4087	:	CloneNo.: 240826D11	
				Recommended Dilutions: WB 1:1000-1:4000	
	Isotype:Full Name:IgGSMAD family member 2				
	Calculated MW: 467 aa, 52 kDa				
	Observed MW: 60 kDa				
Applications	Tested Applications: WB, ELISA		Positive Controls:		
	WB : Calyculin A treated HEK-293 cells, Cited Applications: WB				
	Species Specificity: human				
	Cited Species: human				
Background Information	SMAD2, also named as MADH2 and MADR2, belongs to the dwarfin/SMAD family, contains 1 MH1 (MAD homology domain and 1 MH2 (MAD homology 2) domain. SMAD2 is a receptor-regulated SMAD(R-SMAD) that is an intracellul signal transducer and transcriptional modulator activated by TGF-beta and activin type 1 receptor kinases. This protein may act as a tumor suppressor in colorectal carcinoma. It is phosphorylated on one or several of Thr-220, So 245, Ser-250, and Ser-255. In response to TGF-beta, It is phosphorylated on Ser-465/467 by TGF-beta and activin type 1 receptor kinases, and then able to interact with SMURF2, recruiting other proteins, such as SNON, for degradation. In response to decorin, the naturally occurring inhibitor of TGF-beta signaling, it is phosphorylated or Ser-240 by CaMK2. It is phosphorylated by MAPK3 upon EGF stimulation; which increases transcriptional activity and stability, and is blocked by calmodulin. In response to TGF-beta is gradation. In response to TGF-beta signaling, it is acetylated on Lys-19 by coactivators, which increases transcriptional activity. The molecular weight of unphosphorylated forms of Smad2 is 52 kDa and phosphorylated forms of Smad2 is 58 kDa. (PMID: 9006934)				
Notable Publications	Author	Pubmed ID	Journal	Application	
	Shenyang Liu	39224804	Front Oncol	WB	
Storage	Storage: Store at -20°C. Stable for on Storage Buffer: PBS with 0.02% sodium azi Aliquoting is unnecessary f	de and 50% glycerol pH 7	.3.		

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

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Selected Validation Data



Non-treated and Calyculin A treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 80427-2-RR (Phospho-SMAD2 (Ser465/467) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (66031-1-Ig) antibody as a loading control.