For Research Use Only

## SUMO2/3 Polyclonal antibody Catalog Number: 10947-1-AP Featured Product 1 Public

1 Publications

R proteintech Antibodies | ELISA kits | Proteins www.ptglab.com

	Size: 150ul, Concentration: 600 ug/ml by Nanodrop and 347 ug/ml by Bradford	GenelD (NCBI): 6613		Recommended Dilutions:	
	method using BSA as the standard;	UNIPROT ID: P61956		WB 1:500-1:2000 IHC 1:50-1:500 IF/ICC 1:50-1:500	
	Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG1388	Full Name: SMT3 suppressor homolog 2 (S. ce Calculated MW: 11 kDa Observed MW: 18-20 kDa			
Applications	WB, IHC, IF/ICC, ELISA WB : HEK Cited Applications: Recombi			ontrols: 93 cells, Jurkat cells, A549 cells, nt protein protein	
	WB, IF Species Specificity:			IHC : human colon cancer tissue,	
	human, mouse, rat			La cells,	
	Cited Species: human				
	Note-IHC: suggested antigen ra TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	vely, antigen			
Background Information	Ubiquitin is most famous for its function in targeting proteins for degradation by the 26S proteasome, ubiquitin needs to be attached to a substrate in chains (polyubiquitylation) before being recognized by proteasome. Similarly SUMO (small ubiquitin-related modifier) can be linked to substrates in chains (polysumoylation), SUMO modification has been implicated in many important cellular processes including the control of genome stability, signal transduction, targeting to and formation of nuclear compartments, cell cycle and meiosis. There are 4 confirmed SUMO isoforms in human, SUMO-1, SUMO-2, SUMO-3 and SUMO-4. SUMO-2 and SUMO-3 are nearly identical but are distinct from SUMO-1. SUMO2/3 conjugation was recently widely involved in neuroprotective activities. A substitution (M55V) of SUMO4 was strongly associated with the pathogenesis of type 1 diabetes (T1D) involving NF kappa B related mechanisms.				
Notable Publications	Author Pul	bmed ID	Journal	Application	
	Francesco Antoniani 374	454169	Cell Death Discov		
Storage	Storage: Storage 20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3.				
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20 $^\circ$ C s	torage			
For technical support and original validation da	ata for this product please contact:		This product i	s exclusively available under Proteinte	

in USA), or 1(312) 455-8498 (outside USA)

W: ptglab.com

other manufacturer.

## Selected Validation Data





WB result of SUMO2/3 antibody (10947-1-AP;<br/>1:40000; incubated at room temperature for 1.5<br/>hours) with sh-Control and sh-SUMO2/3 transfectedHEK-293 cells were subjected to SDS PAGE<br/>followed by western blot with 10947-1-AP<br/>(SUMO2/3 antibody) at dilution of 1:1000<br/>incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 10947-1-AP (SUMO 2/3 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 10947-1-AP (SUMO2/3 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using SUMO2/3 antibody (10947-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).