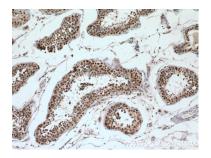
For Research Use Only

## SUMO1 Polyclonal antibody Catalog Number: 10329-1-AP 29 Publications

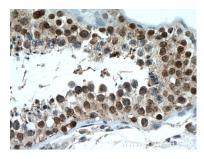


Basic Information	Catalog Number:GenBank A10329-1-APBC006462		Number:	Purification Method: Antigen affinity purification	
	Size: 150ul , Concentration: 700 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG0414	GeneID (NCBI): 7341 UNIPROT ID: P63165 Full Name: SMT3 suppressor of homolog 1 (S. cerev Calculated MW: 12 kDa Observed MW: 12~18 kDa, 80-90 k	risiae)	Recommended Dilutions: WB: 1:1000-1:4000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:50-1:500 IF/ICC: 1:200-1:800 FC (Intra): 0.40 ug per 10^6 cells in a 100 µl suspension	
Applications	Tested Applications: WB, IHC, IF/ICC, FC (Intra), IP, ELISA	Positive Controls: WB : A549 cells, HeLa cells, NIH/3T3 cells, PC-12 cells			
	Cited Applications:	IP : HeLa cell			
	WB, IF, IP, CoIP			testis tissue,	
	Species Specificity: human, mouse, rat	IF/ICC : A54		9 cells,	
	Cited Species: human, mouse, rat	FC (Intra) : A549 cells,			
	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	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-3 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. This antibody can detect endogenous levels of SUMOylated proteins (e.g. SUMO-1-RanGAP at 80-90 kD).				
Notable Publications					
		bmed ID Jour	nal ranostics	Application WB	
	J		l Cell Biol	WB	
			ol Chem	WB	
Storage	Storage: Store at -20°C. Stable for one year at Storage Buffer: PBS with 0.02% sodium azide and 5 Aliquoting is unnecessary for -20°C	0% glycerol, pH7.3			
*** 20ul sizes contain 0.1% BSA					
For technical support and original validation da	ta for this product please contact:		This product is	exclusively available under Proteintec	

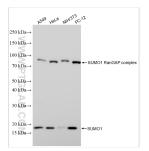
## Selected Validation Data



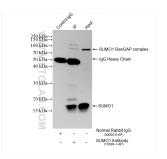
Immunohistochemical analysis of paraffinembedded human testis tissue slide using 10329-1-AP (SUMO 1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human testis tissue slide using 10329-1-AP (SUMO 1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



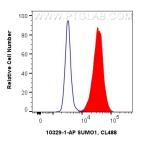
Various lysates were subjected to SDS PAGE followed by western blot with 10329-1-AP (SUMO 1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-SUMO1 (IP:10329-1-AP, 4ug; Detection:10329-1-AP 1:800) with HeLa cells lysate 1600 ug.



Immunofluorescent analysis of (4% PFA) fixed A549 cells using SUMO1 antibody (10329-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).



1X10^6 A549 cells were intracellularly stained with 0.4 ug Anti-Human SUMO 1 (10329-1-AP) and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit 1gG(H+L) at dilution 1:1000 (red), or 0.4 ug Rabbit 1gG control Rabbit PolyAb (30000-0-AP, Clone:) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.