

For Research Use Only

# SUMO2/3 Polyclonal antibody

Catalog Number: 11251-1-AP

Featured Product

11 Publications



## Basic Information

<b>Catalog Number:</b> 11251-1-AP	<b>GenBank Accession Number:</b> BC016775	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 500 µg/ml by Nanodrop and 220 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 6613	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IF 1:200-1:800
<b>Source:</b> Rabbit	<b>Full Name:</b> SMT3 suppressor of mif two 3 homolog 2 (S. cerevisiae)	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 11 kDa	
<b>Immunogen Catalog Number:</b> AG1778	<b>Observed MW:</b> 11-20 kDa	

## Applications

<b>Tested Applications:</b> IF, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> CoIP, IF, IHC, IP, WB	<b>WB :</b> HEK-293 cells, HeLa cells, Jurkat cells, L02 cells
<b>Species Specificity:</b> human, mouse, rat	<b>IF :</b> HEK-293 cells,
<b>Cited Species:</b> human, mouse	

## 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	Pubmed ID	Journal	Application
Shuai Huang	31660066	Theranostics	WB
Xiaoqing Liu	34726485	mSystems	IP
Jing Cao	29512695	Int J Mol Med	IP

## Storage

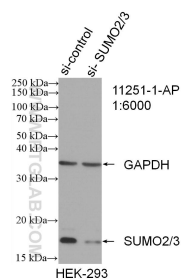
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

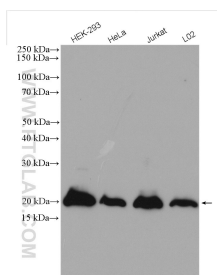
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

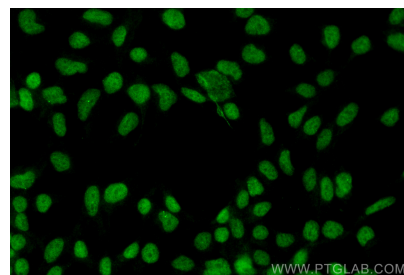
## Selected Validation Data



WB result of SUMO2/3 antibody (11251-1-AP; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SUMO2/3 transfected HEK-293 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 11251-1-AP (SUMO2/3 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using SUMO2/3 antibody (11251-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).