

For Research Use Only

CoraLite® Plus 488-conjugated SUMO1 Polyclonal antibody



Catalog Number: CL488-10329

Basic Information

Catalog Number: CL488-10329	GenBank Accession Number: BC006462	Purification Method: Antigen affinity purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 7341	Recommended Dilutions: IF 1:200-1:800
Source: Rabbit	Full Name: SMT3 suppressor of mif two 3 homolog 1 (S. cerevisiae)	Excitation/Emission maximum wavelengths: 493 nm / 522 nm
Isotype: IgG	Calculated MW: 12 kDa	
Immunogen Catalog Number: AG0414	Observed MW: 10-12 kDa, 80-90 kDa	

Applications

Tested Applications: FC, IF	Positive Controls: IF : A549 cells,
Species Specificity: human, mouse, rat	

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. This antibody can detect endogenous levels of SUMOylated proteins (e.g. SUMO-1-RanGAP at 80-90 kD).

Storage

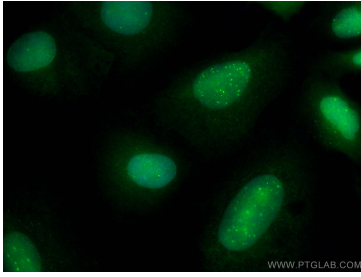
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

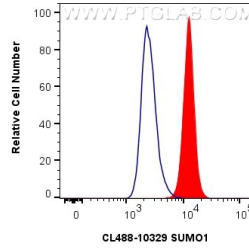
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed A549 cells using CoralLite® Plus 488 SUMO 1 antibody (CL488-10329) at dilution of 1:400.



1×10^6 A549 cells were intracellularly stained with 0.8 μ g CoralLite® Plus 488 Anti-Human SUMO1 (CL488-10329) (red), or 0.8 μ g Control Antibody. Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.