

For Research Use Only

# CoraLite® Plus 488-conjugated SUMO1 Polyclonal antibody



Catalog Number:CL488-10329

## Basic Information

Catalog Number:

CL488-10329

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0414

GenBank Accession Number:

BC006462

GeneID (NCBI):

7341

UNIPROT ID:

P63165

Full Name:

SMT3 suppressor of mif two 3 homolog 1 (S. cerevisiae)

Calculated MW:

12 kDa

Observed MW:

10-12 kDa, 80-90 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IF 1:200-1:800

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

FC, IF/ICC

Species Specificity:

human, mouse, rat

Positive Controls:

IF : A549 cells,

## 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

For technical support and original validation data for this product please contact:

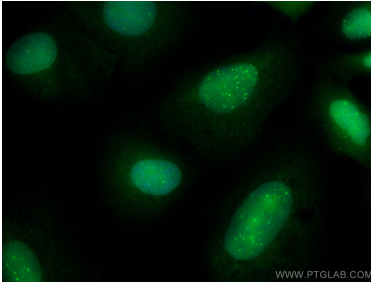
T: 4006900926

E: Proteintech-CN@ptglab.com

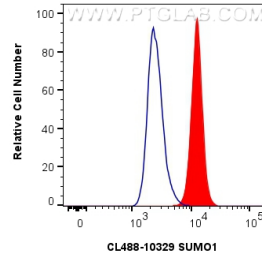
W: ptgcn.com

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed A549 cells using CoraLite® Plus 488 SUMO1 antibody (CL488-10329) at dilution of 1:400.



1X10<sup>6</sup> A549 cells were intracellularly stained with 0.8 ug CoraLite® Plus 488 Anti-Human SUMO1 (CL488-10329) (red), or 0.8 ug Control Antibody. Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.