

# CoraLite® Plus 647-conjugated SUMO2/3 Monoclonal antibody

Catalog Number: CL647-67154

Featured Product

## Basic Information

## Catalog Number:

CL647-67154

## Size:

100ul, Concentration: 1000 µg/ml by Nanodrop;

## Source:

Mouse

## Isotype:

IgG2b

## Immunogen Catalog Number:

AG28672

## GenBank Accession Number:

BC008450

## GeneID (NCBI):

6613

## UNIPROT ID:

P61956

## Full Name:

SMT3 suppressor of mif two 3 homolog 2 (S. cerevisiae)

## Calculated MW:

11 kDa

## Observed MW:

18 kDa

## Purification Method:

Protein A purification

## CloneNo.:

1A1B3

## Excitation/Emission maxima wavelengths:

654 nm / 674 nm

## Applications

## Tested Applications:

FC (Intra)

## 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.

## 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

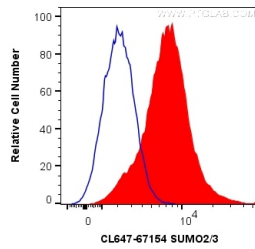
For technical support and original validation data for this product please contact:

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## Selected Validation Data



1X10<sup>6</sup> K-562 cells were intracellularly stained with 0.2  $\mu$ g CoraLite® Plus 647 Anti-Human SUMO2/3 (CL647-67154, Clone:1A1B3) (red), or 0.2  $\mu$ g isotype control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).