Datasheet for ABIN1882136

# anti-SUMO1 antibody (N-Term)

4 Images | 10 Publications

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## Overview

| | |
|---|---|
| Quantity: | 400 µL |
| Target: | SUMO1 |
| Binding Specificity: | AA 1-30, N-Term |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This SUMO1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunofluorescence (IF), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

## Product Details

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|---|---|
| Immunogen: | This SUMO1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human SUMO1. |
| Clone: | RB0629 |
| Isotype: | Ig Fraction |
| Predicted Reactivity: | B, M, Pig, Rat |
| Purification: | This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |

## Target Details

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|---|---|
| Target: | SUMO1 |

## Target Details

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|---|---|
| Alternative Name: | SUMO1 (SUMO1 Products) |
| Background: | Covalent modification of target lysines by SUMO (small ubiquitin-like modifier) modulates processes such as protein localization, transcription, nuclear transport, mitosis, DNA replication and repair, signal transduction, and viral reproduction. SUMO does not seem to be involved in protein degradation and may in fact function as an antagonist of ubiquitin in the degradation process. The SUMO family consists of SUMO1 and closely related homologs SUMO2, SUMO3, and SUMO4. Sumoylation has been shown to regulate a wide range of proteins, including MDM2, PIAS, PML, RanGAP1, RanBP2, p53, p73, HIPK2, TEL, c-Jun, Fas, Daxx, TNFRI, Topo-I, Topo-II, PARK2, WRN, Sp100, IkB-alpha, Androgen receptor (AR), GLUT1/4, CaMK, DNMT3B, TDG, HIF1A, CHD3, EXOSC9, RAD51, and viral targets such as CMV-IE1/2, EBV-BZLF1, and HPV/BPV-E1. |
| Molecular Weight: | 11557 |
| NCBI Accession: | NP_001005781, NP_001005782, NP_003343 |
| UniProt: | P63165 |
| Pathways: | M Phase, Positive Regulation of Endopeptidase Activity, Protein targeting to Nucleus, Ubiquitin Proteasome Pathway |

## Application Details

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|---|---|
| Application Notes: | IF: 1:10~50. WB: 1:1000. IHC-P: 1:50~100. FC: 1:10~50 |
| Restrictions: | For Research Use only |

## Handling

| | |
|---|---|
| Format: | Liquid |
| Buffer: | Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Expiry Date: | 6 months |

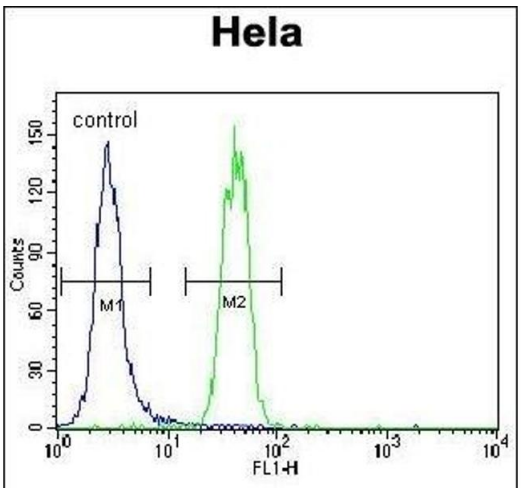
## Publications

Product cited in:

Tekin, Erden, Ozyalin, Cigremis, Colak, Sandal: "The effects of intracerebroventricular infusion of irisin on feeding behaviour in rats." in: **Neuroscience letters**, Vol. 645, pp. 25-32, (2017) ( PubMed).

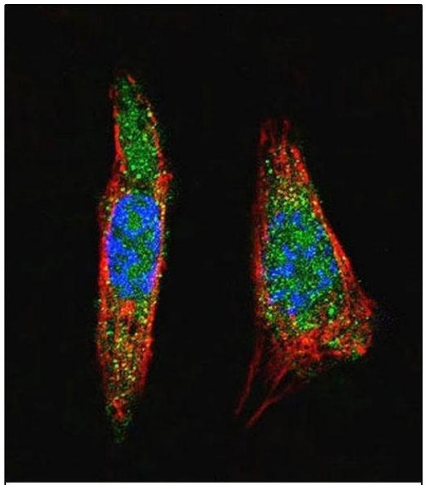
There are more publications referencing this product on: Product page

## Images




**Flow Cytometry**

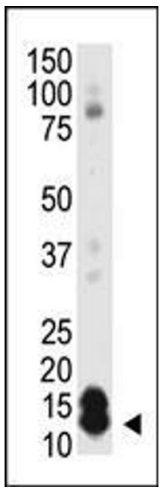
**Image 1.** SUMO1 Antibody (N-term) (ABIN1882136 and ABIN2845486) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



**Immunofluorescence**

**Image 2.** Confocal immunofluorescent analysis of SUMO1 Antibody (N-term) (ABIN1882136 and ABIN2845486) with cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).DI was used to stain the cell nuclear (blue).

## Images




**Western Blotting**

**Image 3.** The anti-SUMO1 polyclonal antibody (ABIN1882136 and ABIN2845486) is used in Western blot to detect SUMO1 in HL-60 cell lysate.

Please check the product details page for more images. Overall 4 images are available for ABIN1882136.