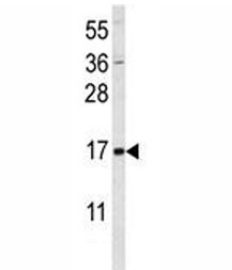
# SUMO1 Antibody (F42010)

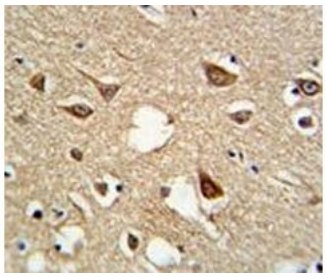
| Catalog No. | Formulation | Size |
|---|---|---|
| F42010-0.4ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.4 ml |
| F42010-0.08ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.08 ml |

**Bulk quote request**

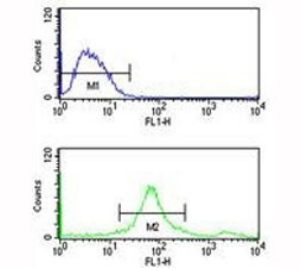
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit Ig |
| **Purity** | Antigen affinity |
| **UniProt** | P63165 |
| **Applications** | Western blot: 1:1000<br>IHC (Paraffin): 1:50-1:100<br>Flow Cytometry: 1:10-1:50<br>Immunofluorescence: 1:10-1:50 |
| **Limitations** | This SUMO1 antibody is available for research use only. |



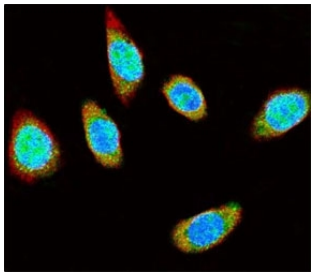

Western blot analysis of SUMO1 antibody and MCF-7 lysate. Predicted molecular weight: 12-15 kDa



IHC analysis of FFPE human brain tissue stained with SUMO1 antibody




SUMO1 antibody flow cytometry analysis of MCF-7 cells (bottom histogram) compared to a negative control (top histogram). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.



Confocal immunofluorescent analysis of SUMO1 antibody with A375 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). Actin filaments have been labeled with Alexa Fluor 555 Phalloidin (red). DAPI was used as a nuclear counterstain (blue).

## Description

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.

## Application Notes

Titration of the SUMO1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

This SUMO1 antibody was produced from rabbits immunized with human SUMO1 recombinant protein.

## Storage

Aliquot the SUMO1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Copyright © NSJ Bioreagents. All rights reserved.