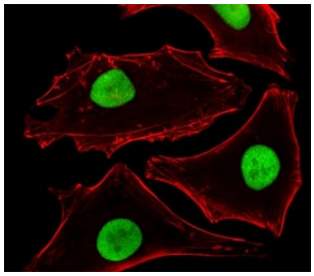
SUMO-2 Antibody [clone 973CT8.1.1] (F52344)

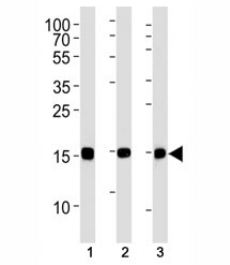
Catalog No.	Formulation	Size
F52344-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F52344-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Rat
Predicted Reactivity	Bovine, Chicken, Hamster, Mouse, Pig, Primate
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	973CT8.1.1
Purity	Purified
UniProt	P61956
Applications	Immunofluorescence: 1:25 Western blot: 1:1000
Limitations	This SUMO-2 antibody is available for research use only.



Fluorescent image of HeLa cells stained with SUMO-2 antibody at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-mouse IgG was used as the secondary Ab (green). Cytoplasmic actin was counterstained with Alexa Fluor 555 conjugated with Phalloidin (red).



SUMO-2 antibody western blot analysis in (1) CEM, (2) 293, (3) rat C6 lysate. Observed molecular weight: 12-15 kDa.

Description

Ubiquitin-like protein that can be covalently attached to proteins as a monomer or as a lysine-linked polymer. Covalent attachment via an isopeptide bond to its substrates requires prior activation by the E1 complex SAE1-SAE2 and linkage to the E2 enzyme UBE2I, and can be promoted by an E3 ligase such as PIAS1-4, RANBP2 or CBX4. This post-translational modification on lysine residues of proteins plays a crucial role in a number of cellular processes such as nuclear transport, DNA replication and repair, mitosis and signal transduction. Polymeric SUMO2 chains are also susceptible to polyubiquitination which functions as a signal for proteasomal degradation of modified proteins.

Application Notes

Titration of the SUMO-2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Purified His-tagged protein was used to produced this monoclonal SUMO-2 antibody.

Storage

Aliquot the SUMO-2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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