

Product Datasheet

SUMO2/3 Antibody (SPM572) [Alexa Fluor® 594] NBP2-34431AF594

Unit Size: 0.1 ml

Store at 4C in the dark.

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NBP2-34431AF594

SUMO2/3 Antibody (SPM572) [Alexa Fluor® 594]

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark.
Clonality	Monoclonal
Clone	SPM572
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Conjugate	Alexa Fluor 594
Purity	Protein A or G purified
Buffer	50mM Sodium Borate
Product Description	
Host	Mouse
Gene ID	6613
Gene Symbol	SUMO2
Species	Human
Reactivity Notes	Shows broad species reactivity.
Specificity/Sensitivity	This monoclonal antibody reacts with both SUMO-2 and SUMO-3. The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1, 2 and 3, belong to the ubiquitin-like protein family. Like ubiquitin, the SUMO proteins are synthesized as precursor proteins that undergo processing before conjugation to target proteins. Also, both utilize the E1, E2 and E3 cascade enzymes for conjugation. However, SUMO and ubiquitin differ with respect to targeting. Ubiquitination predominantly targets proteins for degradation, whereas sumoylation targets proteins to a variety of cellular processing, including nuclear transport, transcriptional regulation, apoptosis and protein stability. The unconjugated SUMO-1, 2 and 3 proteins localize to the nuclear membrane, nuclear bodies and cytoplasm, respectively. SUMO-1 utilizes Ubc9 for conjugation to several target proteins, which include MDM2, p53, PML and RanGap1. SUMO-2 and 3 contribute to a greater percentage of protein modification than does SUMO-1 and unlike SUMO-1, they can form polymeric chains. In addition, SUMO-3 regulates beta-Amyloid generation and may be critical in the onset or progression of Alzheimers disease.
Immunogen	Recombinant human SUMO2/3 protein



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Product Application Details	
Applications	Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Proximity Ligation Assay, CyTOF-ready
Recommended Dilutions	Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Proximity Ligation Assay, CyTOF-ready
Application Notes	Optimal dilution of this antibody should be experimentally determined.



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Products Related to NBP2-34431AF594

IC002T	Mouse IgG1 Isotype Control (11711) [Alexa Fluor® 594]
NB200-103	p53 Antibody (PAb 240) - BSA Free
NB100-59787	PML Protein Antibody - BSA Free
H00026054-M01	SENP6 Antibody (4B7)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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