# **Product Datasheet**

# SUMO1 Antibody (SPM571) [Biotin] NBP2-34805B

Unit Size: 0.1 ml

Store at 4C in the dark.

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# NBP2-34805B

SUMO1 Antibody (SPM571) [Biotin]

stated on the datasheet.  Host  Mouse  Gene ID  7341  Gene Symbol  SuMO1  Species  Human  Reactivity Notes  Shows broad species reactivity.  Specificity/Sensitivity  This monoclonal antibody is specific to SUMO-1 and shows no cross-reaction with either SUMO-2 or SUMO-3. The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1, SUMO-2 and SUMO-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	SUMO1 Antibody (SPM571) [Biotin]	
Please see the vial label for concentration. If unlisted please contact technical services.	Product Information	
Storage Store at 4C in the dark.  Clonality Monoclonal  Clone SPM571  Preservative 0.05% Sodium Azide  Isotype IgG1 Kappa  Conjugate Biotin  Purity Protein A or G purified  Buffer PBS  Product Description  Description This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.  Host Mouse  Gene ID 7341  Gene Symbol SUM01  Species Human  Reactivity Notes Shows broad species reactivity.  Specificity/Sensitivity This monoclonal antibody is specific to SUM0-1 and shows no cross-reaction with either SUM0-2 or SUM0-1. The small ubiquitin-related modifier (SUM0) proteins, which include SUM0-1, SUM0-2 and SUM0-3, belong to the ubiquitin key protein family. Like ubiquitin, the SUMO proteins are synthesized as precursor proteins that undergo processing before conjugation to target protein Also, both utilize the E1, E2, and E3 cascade enzymes for conjugation. Howeve SUM0 and ubiquitin differ with respect to targeting. Ubiquitination predominant targets proteins for degradation, whereas sumoylation for target proteins to a variety of cellular processing, including nuclear transport, transcriptional regulation, apoptosis and protein (Uniprot: P63165)  Product Application Details  Applications  Western Blot, Flow Cytometry, Immunohistochemistry, Immunocytoch	Unit Size	0.1 ml
Clonality Monoclonal Clone SPM571 Preservative 0.05% Sodium Azide Isotype IgG1 Kappa Conjugate Biotin Purity Protein A or G purified Buffer PBS  Product Description Description This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.  Host Mouse Gene ID 7341 Gene Symbol SUM01 Species Human Reactivity Notes Shows broad species reactivity.  Specificity/Sensitivity This monoclonal antibody is specific to SUM0-1 and shows no cross-reaction with either SUM0-2 or SUM0-3. The small ubiquitin-related modifier (SUM0) proteins, which include SUM0-1, SUM0-3 and buffor to target proteins had, both utilize the E1, E2, and E3 cascade enzymes for conjugation to target proteins Also, both utilize the E1, E2, and E3 cascade enzymes for conjugation. However, SUM0 and ubiquitin differ with respect to targeting. Ubiquitination predominantia 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 SUM0-1 protein localizes to the nuclear membrane.  Immunogen Recombinant human SUM01 protein (Uniprot: P63165)  Product Application Details  Applications Western Blot, Flow Cytometry, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Immunofistochemistry, Immunofistochemistry	Concentration	·
Clone SPM571  Preservative 0.05% Sodium Azide  Isotype IgG1 Kappa  Conjugate Biotin  Purity Protein A or G purified  Buffer PBS  Product Description  Description This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.  Host Mouse  Gene ID 7341  Gene Symbol SUMO1  Species Human  Reactivity Notes Shows broad species reactivity.  Specificity/Sensitivity This monoclonal antibody is specific to SUMO-1 and shows no cross-reaction with either SUMO-2 or SUMO-3. The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1. The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1. SUMO-2 and SUMO-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 protein. Also, both utilize the E1, E2, and E3 cascade enzymes for conjugation. However, SUMO and ubiquitin differ with respect to targeting. Ubiquitination predominant 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 protein localizes to the nuclear membrane.  Immunogen Recombinant human SUMO1 protein (Uniprot: P63165)  Product Application Details  Applications Western Blot, Flow Cytometry, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Immunofistochemistry, Immunofistochemistry, Immunofistochemistry, Immunofistochemistry, Immunofistochemistry, Immunofistochemistry, Immunofistochemistry, Immunofistochemistry, Immunocytochemistry, Immunofistochemistry, Immunofistochemistry, Immunocytochemistry, Immunocytochemistr	Storage	Store at 4C in the dark.
Preservative   IgG1 Kappa   IgG1 Kappa   IgG1 Kappa   Biotin	Clonality	Monoclonal
IgG1 Kappa   IgG1 Kappa   Biotin	Clone	SPM571
Conjugate Biotin  Purity Protein A or G purified  Buffer PBS  Product Description  Description This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.  Host Mouse  Gene ID 7341  Gene Symbol SUMO1  Species Human  Reactivity Notes Shows broad species reactivity.  Specificity/Sensitivity This monoclonal antibody is specific to SUMO-1 and shows no cross-reaction with either SUMO-2 or SUMO-3. The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-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. Howeve SUMO and ubiquitin differ with respect to targeting. Ubiquitination predominant 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 protein localizes to the nuclear membrane.  Immunogen Recombinant human SUMO1 protein (Uniprot: P63165)  Product Application Details  Applications Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry, Immunopotytochemistry, Immunocytochemistry, Immunopotytochemistry, Immunopotytoc	Preservative	0.05% Sodium Azide
Purity Protein A or G purified  Buffer PBS  Product Description  This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.  Host Mouse  Gene ID 7341  Gene Symbol SUMO1  Species Human  Reactivity Notes Shows broad species reactivity.  Specificity/Sensitivity This monoclonal antibody is specific to SUMO-1 and shows no cross-reaction with either SUMO-2 or SUMO-3. The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1, SUMO-2 and SUMO-3, belong to the ubiquitin like protein family. Like ubiquitin, the SUMO proteins are synthesized as precursor proteins that undergo processing before conjugation. Howeve SUMO and ubiquitin differ with respect to targeting. Ubiquitination predominant 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 protein localizes to the nuclear membrane.  Recombinant human SUMO1 protein (Uniprot: P63165)  Product Application Details  Applications Western Blot, Flow Cytometry, Immunocytochemistry, Immunocy	Isotype	IgG1 Kappa
Product Description  This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.  Host Mouse  Gene ID 7341  Gene Symbol SUMO1  Species Human  Reactivity Notes Shows broad species reactivity.  Specificity/Sensitivity This monoclonal antibody is specific to SUMO-1 and shows no cross-reaction with either SUMO-2 or SUMO-3. The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1, SUMO-2 and SUMO-3, belong to the ubiquitin like protein family. Like ubiquitin, the SUMO proteins are synthesized as precursor proteins that undergo processing before conjugation. Howeve SUMO and ubiquitin differ with respect to targeting. Ubiquitination predominant 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 protein localizes to the nuclear membrane.  Immunogen Recombinant human SUMO1 protein (Uniprot: P63165)  Product Application Details  Applications Western Blot, Flow Cytometry, Immunopytochemistry, Immunocytochemistry, Immunocytochemistry, Immunopistochemistry, Immunopistochemistry, Immunopistochemistry, Immunopistochemistry, Immunopistochemistry, Immunopytochemistry, Immunocytochemistry, Immunocytochemistry, Immunopistochemistry, Immunopistochemistry, Immunopistochemistry, Immunopistochemistry, Immunopytochemistry, Immunopytoch	Conjugate	Biotin
Product Description  This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.  Host  Mouse  Gene ID  7341  Gene Symbol  SUMO1  Species  Human  Reactivity Notes  Shows broad species reactivity.  Specificity/Sensitivity  This monoclonal antibody is specific to SUMO-1 and shows no cross-reaction with either SUMO-2 or SUMO-3. The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1, SUMO-2 and SUMO-3, belong to the ubiquitin like protein family. Like ubiquitin, the SUMO proteins are synthesized as precursor proteins that undergo processing before conjugation. However, SUMO and ubiquitin differ with respect to targeting. Ubiquitination predominant 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 protein localizes to the nuclear membrane.  Immunogen  Recombinant human SUMO1 protein (Uniprot: P63165)  Product Application Details  Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry, Immunocytochemistry, Imm	Purity	Protein A or G purified
This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.  Host Mouse  Gene ID 7341  Gene Symbol SUMO1  Species Human  Reactivity Notes Shows broad species reactivity.  Specificity/Sensitivity This monoclonal antibody is specific to SUMO-1 and shows no cross-reaction with either SUMO-2 or SUMO-3. The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1, SUMO-2 and SUMO-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 predominant 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 protein localizes to the nuclear membrane.  Immunogen Recombinant human SUMO1 protein (Uniprot: P63165)  Product Application Details  Applications Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry, Immunocytochemistry, Immunocytoche	Buffer	PBS
volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.  Mouse  Gene ID  7341  Gene Symbol  SUMO1  Species  Human  Reactivity Notes  Shows broad species reactivity.  Specificity/Sensitivity  This monoclonal antibody is specific to SUMO-1 and shows no cross-reaction with either SUMO-2 or SUMO-3. The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1, SUMO-2 and SUMO-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. Howeves SUMO and ubiquitin differ with respect to targeting. Ubiquitination predominant 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 protein localizes to the nuclear membrane.  Immunogen  Recombinant human SUMO1 protein (Uniprot: P63165)  Product Application Details  Applications  Western Blot, Flow Cytometry, Immunocytochemistry/ Immunocytochemistry/ Immunocytochemistry, Immu	Product Description	
Gene Symbol Sumon Species Human Reactivity Notes Specificity/Sensitivity This monoclonal antibody is specific to SUMO-1 and shows no cross-reaction with either SUMO-2 or SUMO-3. The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1, SUMO-2 and SUMO-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. Howeves SUMO and ubiquitin differ with respect to targeting. Ubiquitination predominant 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 protein localizes to the nuclear membrane.  Immunogen Recombinant human SUMO1 protein (Uniprot: P63165)  Product Application Details Applications Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry, Immunocytochemistry, Immunocytochemistry/	Description	volume of this product. The volume will be greater than or equal to the unit size
Gene Symbol Species Human Reactivity Notes Shows broad species reactivity.  Specificity/Sensitivity This monoclonal antibody is specific to SUMO-1 and shows no cross-reaction with either SUMO-2 or SUMO-3. The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1, SUMO-2 and SUMO-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. Howeve SUMO and ubiquitin differ with respect to targeting. Ubiquitination predominant 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 protein localizes to the nuclear membrane.  Immunogen Recombinant human SUMO1 protein (Uniprot: P63165)  Product Application Details Applications Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry, Immunocytochemistry, Immunocytochemistry/	Host	Mouse
Species	Gene ID	7341
Reactivity Notes  Shows broad species reactivity.  This monoclonal antibody is specific to SUMO-1 and shows no cross-reaction with either SUMO-2 or SUMO-3. The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1, SUMO-2 and SUMO-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 predominant 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 protein localizes to the nuclear membrane.  Immunogen  Recombinant human SUMO1 protein (Uniprot: P63165)  Product Application Details  Applications  Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry, Immunocytochemistry, Immunocytochemistry, Immunocytochemistry, Immunocytochemistry/	Gene Symbol	SUMO1
This monoclonal antibody is specific to SUMO-1 and shows no cross-reaction with either SUMO-2 or SUMO-3. The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1, SUMO-2 and SUMO-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. Howeve SUMO and ubiquitin differ with respect to targeting. Ubiquitination predominantl 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 protein localizes to the nuclear membrane.  Immunogen  Recombinant human SUMO1 protein (Uniprot: P63165)  Product Application Details  Applications  Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry, Immunocytochemistry, Immunocytochemistry/  Western Blot, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/	Species	Human
with either SUMO-2 or SUMO-3. The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1, SUMO-2 and SUMO-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. Howeve SUMO and ubiquitin differ with respect to targeting. Ubiquitination predominantl 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 protein localizes to the nuclear membrane.  Immunogen  Recombinant human SUMO1 protein (Uniprot: P63165)  Product Application Details  Applications  Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry, Immunocytochemistry, Immun	Reactivity Notes	Shows broad species reactivity.
Product Application Details  Applications  Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready  Recommended Dilutions  Western Blot, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/	Specificity/Sensitivity	with either SUMO-2 or SUMO-3. The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1, SUMO-2 and SUMO-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 protein
Applications  Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready  Recommended Dilutions  Western Blot, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/	Immunogen	Recombinant human SUMO1 protein (Uniprot: P63165)
Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready  Recommended Dilutions  Western Blot, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/	• • • • • • • • • • • • • • • • • • • •	
	Applications	
	Recommended Dilutions	





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# **Products Related to NBP2-34805B**

NBP2-29370 Streptavidin Native Protein

IC002B Mouse IgG1 Isotype Control (11711) [Biotin]

NBP2-54916PEP SUMO1 Recombinant Protein Antigen

210-TA-005 TNF-alpha [Unconjugated]

#### Limitations

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