

# Product Datasheet

## SUMO2/3 Antibody (SM23/496) [FITC] NBP2-34717F

Unit Size: 0.1 ml

Store at 4C in the dark.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NBP2-34717F](http://www.novusbio.com/NBP2-34717F)

Updated 10/26/2023 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NBP2-34717F](http://www.novusbio.com/reviews/destination/NBP2-34717F)



**NBP2-34717F**

SUMO2/3 Antibody (SM23/496) [FITC]

| 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                       | SM23/496   |
| Preservative                | 0.05% Sodium Azide   |
| Isotype                     | IgG1 Kappa   |
| Conjugate                   | FITC   |
| Purity                      | Protein A or G purified  |
| Buffer                      | PBS  |
| Product Description         |  |
| Host                        | Mouse  |
| Gene ID                     | 6613   |
| Gene Symbol                 | SUMO2  |
| Species                     | Human  |
| Reactivity Notes            | Predicted to show a 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. 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  |
| Product Application Details |  |
| Applications                | Western Blot, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready   |
| Recommended Dilutions       | Western Blot, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin, Flow (Intracellular), CyTOF-ready   |
| Application Notes           | Optimal dilution of this antibody should be experimentally determined.   |





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA

Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
novus@novusbio.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada

Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom

Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: technical@novusbio.com  
Orders: orders@novusbio.com  
General: novus@novusbio.com

### **Products Related to NBP2-34717F**

---

|               |  |
|---------------|--|
| NBP1-43319F   | Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1) [FITC] |
| NB100-59787   | PML Protein Antibody - BSA Free                      |
| NB200-103     | p53 Antibody (PAb 240) - 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.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NBP2-34717F](http://www.novusbio.com/reviews/submit/NBP2-34717F)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

