

# Product Datasheet

## Sirtuin 1/SIRT1 Antibody - BSA Free NBP2-27205

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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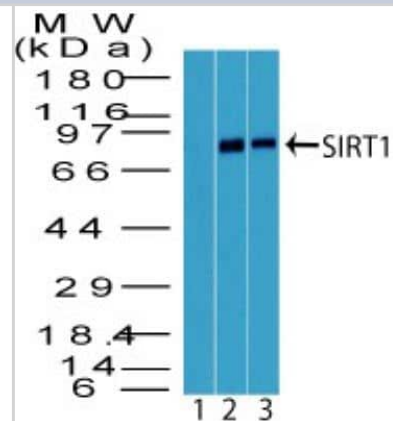
**NBP2-27205**

Sirtuin 1/SIRT1 Antibody - BSA Free

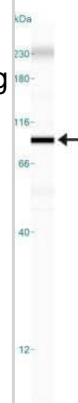
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	PBS
Product Description	
Description	Novus Biologicals Rabbit Sirtuin 1/SIRT1 Antibody - BSA Free (NBP2-27205) is a polyclonal antibody validated for use in WB and Simple Western. Anti-Sirtuin 1/SIRT1 Antibody: Cited in 10 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	23411
Gene Symbol	SIRT1
Species	Human, Mouse, Porcine, Amphibian, Bovine, Canine, Chicken, Chinese Hamster, Equine, Feline, Hamster, Primate, Rabbit
Reactivity Notes	The amino acid sequence used as immunogen for this antibody is 100% homologous in Frog, and White-cheeked Gibbon, and 89% homologous in Zebrafish. Use in Hamster reported in scientific literature (PMID:24585438).
Immunogen	A portion of amino acids 400-450 from human SIRT1 was used as the immunogen for this antibody.
Product Application Details	
Applications	Western Blot, Simple Western
Recommended Dilutions	Western Blot 2-4ug/ml, Simple Western 1:50
Application Notes	In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in NIH-3T3 lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:50, apparent MW was 94 kDa.

## Images

Western Blot: Sirtuin 1/SIRT1 Antibody [NBP2-27205] - Analysis of SIRT1 using SIRT1 antibody. HeLa lysate probed with 1) prebleed, 2) SIRT1 antibody and 3) mouse NIH 3T3 lysate probed with SIRT1 antibody at 2 ug/ml. 1 goat anti-rabbit Ig HRP secondary antibody and PicoTect ECL substrate solution were used for this test.



Simple Western: Sirtuin 1/SIRT1 Antibody [NBP2-27205] - Simple Western lane view shows a specific band for Sirtuin 1/SIRT1 in 0.5 mg/ml of NIH-3T3 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



## Publications

Yang S, Huang H, Jiang K et al. Colchicine inhibits vascular calcification by suppressing inflammasome activation through the enhancement of the Sirt2-PP2Ac signaling pathway *The Journal of Biological Chemistry* 2025-07-01 [PMID: 40523615]

Jiao H, Fan Y, Gong A et al. Xiaoyaosan ameliorates CUMS-induced depressive-like and anorexia behaviors in mice via necroptosis related cellular senescence in hypothalamus *Journal of ethnopharmacology* 2023-07-24 [PMID: 37495029]

Gao N, Yang Y, Liu S et al. Gut-Derived Metabolites from Dietary Tryptophan Supplementation Quench Intestinal Inflammation through the AMPK-SIRT1-Autophagy Pathway *Journal of agricultural and food chemistry* 2022-12-28 [PMID: 36521060]

Li Y, Li Y, Xu S et al. N-Acylethanolamine acid amidase (NAAA) exacerbates psoriasis inflammation by enhancing dendritic cell (DCs) maturation *Pharmacological research* 2022-10-13 [PMID: 36244543] (WB)

Wang C, Yang Y, Gao N et al. L-Threonine upregulates beta-defensins expression by activating NF-kappa B signaling pathway and suppressing SIRT1 expression in porcine intestinal epithelial cells *Food & Function* 2021-04-24 [PMID: 34047325]

Zhang H, Chen Y, Li Y, Wang T Protective Effect of Polydatin on Jejunal Mucosal Integrity, Redox Status, Inflammatory Response, and Mitochondrial Function in Intrauterine Growth-Retarded Weanling Piglets *Oxid Med Cell Longev* 2020-10-10 [PMID: 33101591] (WB)

Sun Y, Zhu S, Chen J et al. Sirt1 Mediated High-Glucose-Induced A beta Deposition and Cognitive Impairment through Activation of the TLR9/p53 Pathway *Research Square* 2020-07-08 (WB, Mouse)

Podgorski II, Pinteric M, Marcinko D et al. Combination of sirtuin 3 and hyperoxia diminishes tumorigenic properties of MDA-MB-231 cells *Life Sci.* 2020-05-16 [PMID: 32428596] (WB, Human)

Zhang H, Chen Y, Chen Y et al. Comparison of the effects of resveratrol and its derivative pterostilbene on hepatic oxidative stress and mitochondrial dysfunction in piglets challenged with diquat *Food Funct* 2020-05-01 [PMID: 32352466]

Ascenzi, F;Barberi, L;Dobrowolny, G;Villa Nova Bacurau, A;Nicoletti, C;Rizzuto, E;Rosenthal, N;Scicchitano, BM;Musaro, A; Effects of IGF-1 isoforms on muscle growth and sarcopenia *Aging Cell* 2019-04-05 [PMID: 30953403] (WB, Mouse)

Zhang H, Li Y, Su W et al. Resveratrol attenuates mitochondrial dysfunction in the liver of intrauterine growth retarded suckling piglets by improving mitochondrial biogenesis and redox status. *Mol Nutr Food Res.* 2016-12-13 [PMID: 27958670] (Porcine)

Romain C, Bresciani L, Gaillet S et al. Moderate chronic administration of Vineatrol-enriched red wines improves metabolic, oxidative, and inflammatory markers in hamsters fed a high-fat diet. *Mol Nutr Food Res.* 2014-02-28 [PMID: 24585438] (WB, Hamster)

Details:  
Liver, Fig 1A.



### **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  
nb-customerservice@bio-techne.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: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-27205**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **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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