

# Product Datasheet

## OS9 Antibody - BSA Free NB100-519

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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



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

### Publications: 7

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NB100-519](http://www.novusbio.com/NB100-519)

Updated 2/21/2025 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/NB100-519](http://www.novusbio.com/reviews/destination/NB100-519)



**NB100-519**

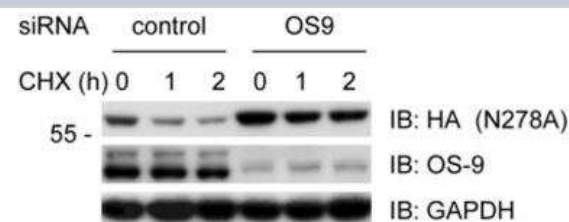
OS9 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)
Product Description	
Host	Rabbit
Gene ID	10956
Gene Symbol	OS9
Species	Human, Mouse
Specificity/Sensitivity	This is specific for isoforms 1 and 2 of human OS-9.
Immunogen	Synthetic peptide made to an internal portion of isoform 1 of the human OS9 protein (within residues 300-400). [Swiss-Prot# Q13438]
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 0.2-1.0 ug/ml, Immunohistochemistry 0.5-1.0 ug/ml, Immunocytochemistry/ Immunofluorescence 0.2-1.0 ug/ml, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:100-1:250, Knockdown Validated
Application Notes	In WB, bands can be seen at ~75 kDa representing isoform 1 and at ~70 kDa representing isoform 2.

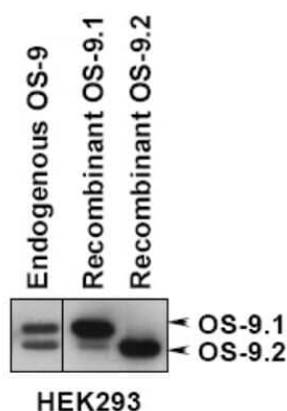


## Images

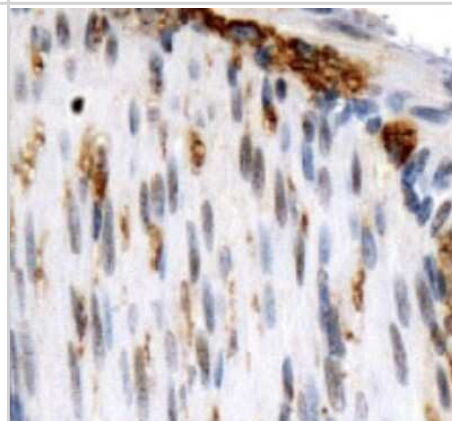
**Western Blot: OS9 Antibody [NB100-519] - Contribution and interaction of OS-9 for degradation of SHH proteins.** Cells stably expressing the N278A-HA precursor were depleted of OS-9 by siRNA, and the fate of N278A was followed after cycloheximide (CHX) addition. All samples were analyzed by SDS-PAGE and immunoblotting with HA antibodies. Controls were treated with a commercial negative control siRNA. The samples were also immunoblotted for OS-9 to show the extent of depletion. Immunoblotting with GAPDH antibodies served as loading control. Image collected and cropped by CiteAb from the following publication ([//doi.org/10.1371/journal.pone.0092164](https://doi.org/10.1371/journal.pone.0092164)) licensed under a CC-BY license.



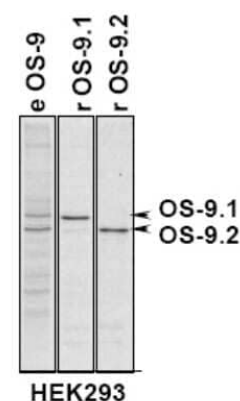
**Western Blot: OS9 Antibody [NB100-519] - Detection of OS-9.1 and OS-9.2 in total HEK293 cells, HEK293 cells expressing OS-9.1 or OS-9.2 by western analysis.**



**Immunohistochemistry: OS9 Antibody [NB100-519] - Staining of OS9 in mouse smooth muscle.**



**Immunoprecipitation: OS9 Antibody [NB100-519] - Immunoprecipitation of OS-9.1 and OS-9.2 in total HEK293 cells, HEK293 cells expressing OS-9.1 or OS-9.2.**



## Publications

Chen S, Yin C, Lao T et al. AMPK-HDAC5 pathway facilitates nuclear accumulation of HIF-1alpha and functional activation of HIF-1 by deacetylating Hsp70 in the cytosol. *Cell Cycle* 2015-08-03 [PMID: 26061431] (WB)

Hofmann S, Fischer A, Nothnagel M et al. Genome-wide association analysis reveals 12q13 3-q14 1 as new risk locus for sarcoidosis. *Eur Respir J* 2013-04-01 [PMID: 22936702]

### Details:

Using the Biotin conjugated version of NB100-519, catalog number NB100-519B.

Koenig Pa, Nicholls Pk, Schmidt Fi et al. The E2 Ubiquitin Conjugating Enzyme UBE2J1 is Required for Spermiogenesis in Mice. *J. Biol. Chem.* 2014-10-15 [PMID: 25320092] (WB, Mouse)

Sun Yw, Chen Yf, Li J et al. A novel long non-coding RnA EnST00000480739 suppresses tumour cell invasion by regulating OS-9 and HIF-1Alpha in pancreatic ductal adenocarcinoma. *Br. J. Cancer.* 2014-10-14 [PMID: 25314054] (WB, IHC-P, Human)

Tang HY, Huang CH, Zhuang YH et al. EDEM2 and OS-9 Are Required for ER-Associated Degradation of Non-Glycosylated Sonic Hedgehog *PLoS ONE.* 2014-06-10 [PMID: 24910992] (WB, Human)

### Details:

OS9 antibody used for WB on Human 293T cells stably expressing N278A-HA precursor that were depleted of OS-9 by siRNA (Figure 6A). Also, SHH-HA or N278A-HA plasmids were co-transfected with either vector, wild type OS-9.2 (WT-OS-9.2), or R188A-OS-9 mutants and HA immunoprecipitants from lysed cells were processed for WB with OS-9 antibody (Figure 6C).

Huang CH, Hsiao HT, Chu YR et al. Derlin2 facilitates HRD1-mediated retro-translocation of sonic hedgehog at the endoplasmic reticulum. *J Biol Chem* 2013-07-18 [PMID: 23867461] (WB, Human)

Bernasconi R, Pertel T, Luban J et al. A dual task for the Xbp1-responsive OS-9 variants in the mammalian endoplasmic reticulum: inhibiting secretion of misfolded protein conformers and enhancing their disposal. *J Biol Chem*;283(24):16446-54. 2008-06-13 [PMID: 18417469] (WB, ICC/IF, IP, Human)





### **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](http://www.novusbio.com)  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NB100-519**

NBL1-13982	OS9 Overexpression Lysate
NB100-519PEP	OS9 Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

### **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/NB100-519](http://www.novusbio.com/reviews/submit/NB100-519)

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

