

# Product Datasheet

## CD44 Antibody (OX-50) - BSA Free NB600-1317

Unit Size: 0.1 ml

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

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



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

**Reviews: 1 Publications: 12**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NB600-1317](http://www.novusbio.com/NB600-1317)

Updated 9/9/2025 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/NB600-1317](http://www.novusbio.com/reviews/destination/NB600-1317)



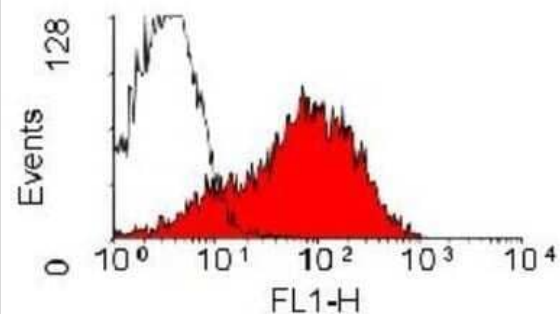
**NB600-1317**

CD44 Antibody (OX-50) - BSA Free

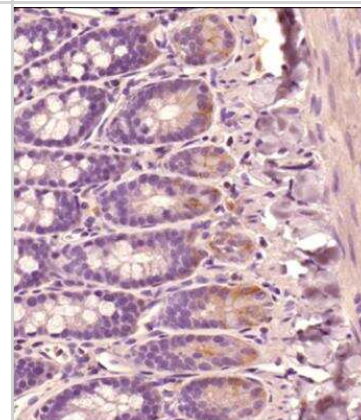
<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	OX-50
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse CD44 Antibody (OX-50) - BSA Free (NB600-1317) is a monoclonal antibody validated for use in IHC, WB, Flow and ICC/IF. Anti-CD44 Antibody: Cited in 12 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	960
<b>Gene Symbol</b>	CD44
<b>Species</b>	Rat
<b>Marker</b>	Cell Membrane Marker
<b>Specificity/Sensitivity</b>	This recognizes the rat CD44 cell surface antigen, expressed by T cells, B cells, macrophages and thymocytes.
<b>Immunogen</b>	Rat T cell blasts from a mixed lymphocyte reaction between purified CD4+ T cells and irradiated spleen cells.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, CyTOF-ready
<b>Recommended Dilutions</b>	Western Blot reported in scientific literature (PMID 8537452), Flow Cytometry 1:50 - 1:100, Immunohistochemistry 1:50 - 1:100, Immunocytochemistry/ Immunofluorescence reported in scientific literature (PMID 31229690), Immunohistochemistry-Paraffin 1:50 - 1:100. Use reported in scientific literature (PMID 16673425), Immunohistochemistry-Frozen 1:50 - 1:100. Use reported in scientific literature (PMID 16673425), CyTOF-ready
<b>Application Notes</b>	This antibody is CyTOF ready.

## Images

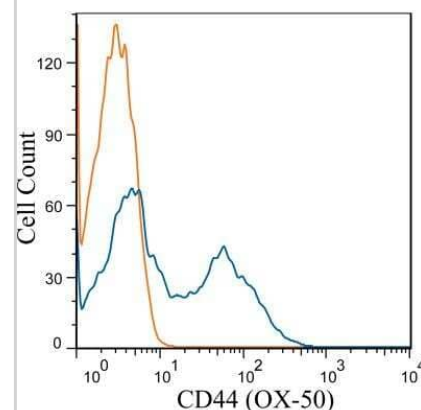
Flow Cytometry: CD44 Antibody (OX-50) [NB600-1317] - Analysis using the FITC conjugate of NB600-1317. Staining of rat spleen cells with Mouse anti Rat CD44: FITC.



Immunohistochemistry-Paraffin: CD44 Antibody (OX-50) [NB600-1317] - Analysis of a FFPE tissue section of Rat small intestine using Mouse anti-Rat CD44 antibody (clone OX50) at 1:100 dilution. The staining was detected using HRP-conjugated anti-Mouse secondary antibody with DAB reagent followed by hematoxylin counterstaining. This antibody clone specifically stained the membranes of the cells close to the bases of the crypts/villi which are known to actively migrate towards the tip of villi.



Flow Cytometry: CD44 Antibody (OX-50) [NB600-1317] - Rat Splenocytes were stained with CD44 (OX-50) antibody NB600-1317 (blue) and a matched isotype control NBP2-27287 (orange). Cells were incubated in an antibody dilution of 1 ug/mL for 20 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.



## Publications

Shahjin F, Patel M, Machhi J et al. Multipolymer microsphere delivery of SARS-CoV-2 antigens Acta biomaterialia 2022-12-26 [PMID: 36581007] (FLOW, Rat)

LaRocca TJ, Mariani A, Watkins LR et al. TDP-43 knockdown causes innate immune activation via protein kinase R in astrocytes Neurobiol. Dis. 2019-06-20 [PMID: 31229690] (ICC/IF, Rat)

Husain S, Ginawi I, Bashir AI et al. Focal and segmental glomerulosclerosis in murine models: a histological and ultrastructural characterization with immunohistochemistry correlation of glomerular CD44 and WT1 expression. Ultrastruct Pathol. 2018-10-04 [PMID: 30285525] (IHC-P, Rat)

Lee Sean J, Duncan D'anne S, Echevarria Franklin D et al. Pressure-Induced Alterations in PEDF and PEDF-R Expression: Implications for Neuroprotective Signaling in Glaucoma. J Clin Exp Ophthalmol 2015-01-01 [PMID: 26807306] (IHC-P, Rat)

Bonnema H, Popa ER, van Timmeren MM et al. Distribution patterns of the membrane glycoprotein CD44 during the foreign-body reaction to a degradable biomaterial in rats and mice. J Biomed Mater Res A. [PMID: 12579564] (IHC-Fr, Rat)

Khaldoyanidi S, Schnabel D, Fohr N, Zoller M. Functional activity of CD44 isoforms in haemopoiesis of the rat. Br J Haematol. [PMID: 9012685] (FLOW, Rat)

Crook K, Hunt SV. Enrichment of early fetal-liver hemopoietic stem cells of the rat using monoclonal antibodies against the transferrin receptor, Thy-1, and MRC-OX82. Dev Immunol. [PMID: 8924759] (FLOW, Rat)

Neame SJ, Uff CR, Sheikh H et al. CD44 exhibits a cell type dependent interaction with triton X-100 insoluble, lipid rich, plasma membrane domains. J Cell Sci. [PMID: 8537452] (WB, Rat)

Seiter S, Arch R, Reber S et al. Prevention of tumor metastasis formation by anti-variant CD44. J Exp Med. [PMID: 8426113]

Zheng Z, Katoh S, He Q et al. Monoclonal antibodies to CD44 and their influence on hyaluronan recognition. J Cell Biol. [PMID: 7542251] (FLOW, Rat)

Nagai Y, Inobe M, Kikuchi K, Uede T. Functional and phenotypical analysis of subsets of rat CD4+ T cells. Microbiol Immunol. [PMID: 7504163] (FLOW, Rat)

Gesierich S, Berezovskiy I, Ryschich E, Zoller M. Systemic induction of the angiogenesis switch by the tetraspanin D6.1A/CO-029. Cancer Res. [PMID: 16849554] (FLOW, Rat)



### **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 NB600-1317**

---

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

---

### **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/NB600-1317](http://www.novusbio.com/reviews/submit/NB600-1317)

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

