

# Product Datasheet

## CD68/SR-D1 Antibody (ED1) - BSA Free NB600-985

Unit Size: 0.125 mg

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: 2 Publications: 23**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NB600-985](http://www.novusbio.com/NB600-985)

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/NB600-985](http://www.novusbio.com/reviews/destination/NB600-985)



**NB600-985**

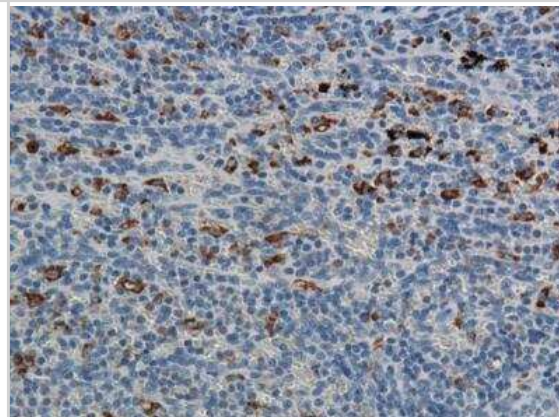
CD68/SR-D1 Antibody (ED1) - BSA Free

| Product Information         |   |
|-----------------------------|---|
| Unit Size                   | 0.125 mg  |
| Concentration               | 1.0 mg/ml   |
| Storage                     | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.  |
| Clonality                   | Monoclonal  |
| Clone                       | ED1   |
| Preservative                | 0.09% Sodium Azide  |
| Isotype                     | IgG1  |
| Purity                      | Protein A purified  |
| Buffer                      | PBS   |
| Product Description         |   |
| Description                 | Novus Biologicals Mouse CD68/SR-D1 Antibody (ED1) - BSA Free (NB600-985) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-CD68/SR-D1 Antibody: Cited in 20 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.  |
| Host                        | Mouse   |
| Gene ID                     | 968   |
| Gene Symbol                 | CD68  |
| Species                     | Rat   |
| Reactivity Notes            | Predicted cross-reactivities: Bovine  |
| Marker                      | Macrophage Marker   |
| Specificity/Sensitivity     | This CD68/SR-D1 Antibody (ED1) recognizes a single chain glycoprotein of 110 kDa that is expressed predominantly on the lysosomal membrane of myeloid cells. Weak cell surface expression also occurs. The antigen is expressed by the majority of tissue macrophages and weakly by peripheral blood granulocytes. Studies have shown that the antigen recognized by ED1 is the rat homologue of human CD68.  |
| Immunogen                   | Rat spleen cells  |
| Product Application Details |   |
| Applications                | Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation  |
| Recommended Dilutions       | Western Blot 1:100 - 1:2000, Flow Cytometry 1:50 - 1:100, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/ Immunofluorescence 1:10 - 1:500, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1:100, Immunohistochemistry-Frozen 1:10 - 1:500, Flow (Intracellular)  |
| Application Notes           | Flow Cytometry: Use 10 uL of the suggested working dilution (1:50 - 1:100) to label 10 <sup>6</sup> cells in 100 uL. Membrane permeabilization is required for Flow Cytometry. Immunohistology on frozen and paraffin sections: Use at a dilution of 1:100, requires protein digestion pretreatment with pronase or trypsin. WB: Use at an assay dependent dilution. IP: Use at an assay dependent dilution. RIA: Use at an assay dependent dilution. |

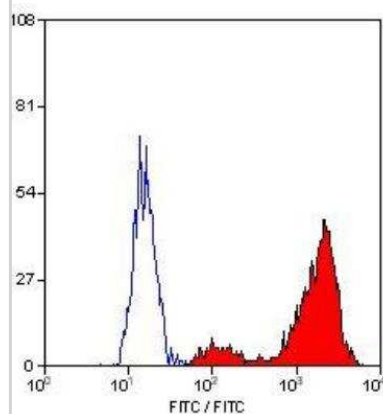


## Images

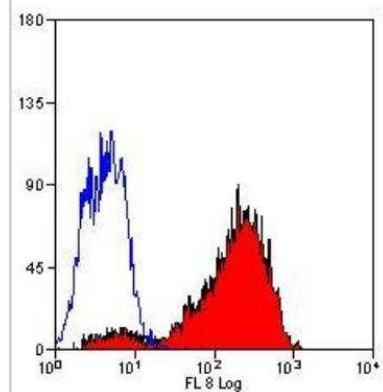
Immunohistochemistry-Paraffin: CD68/SR-D1 Antibody (ED1) [NB600-985] - Cynomolgus monkey spleen. IHC-P image submitted by a verified customer review.



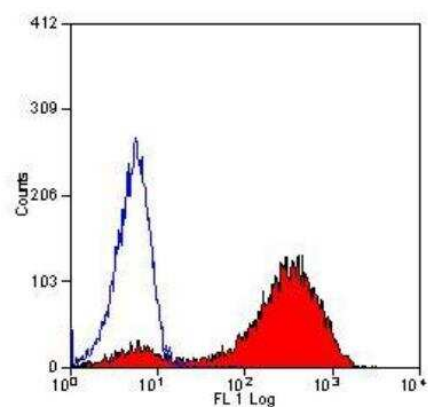
Flow Cytometry: CD68/SR-D1 Antibody (ED1) [NB600-985] - Staining of rat peritoneal macrophages cells.



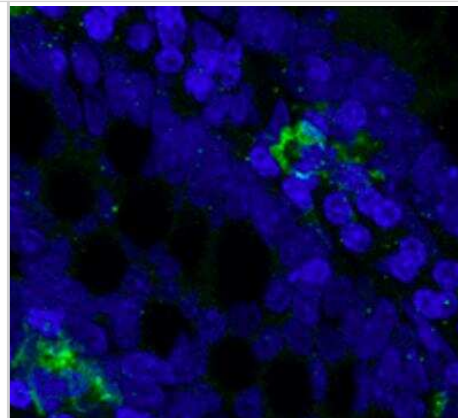
Flow Cytometry: CD68/SR-D1 Antibody (ED1) [NB600-985] - Staining of rat peritoneal macrophages.



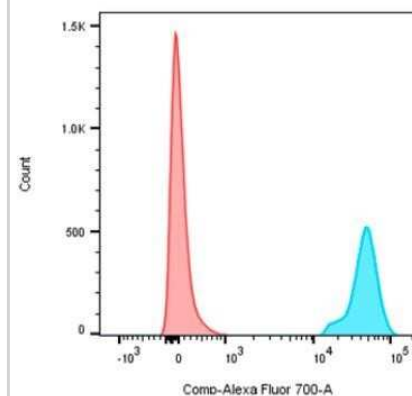
Flow Cytometry: CD68/SR-D1 Antibody (ED1) [NB600-985] - Staining of rat peritoneal macrophages



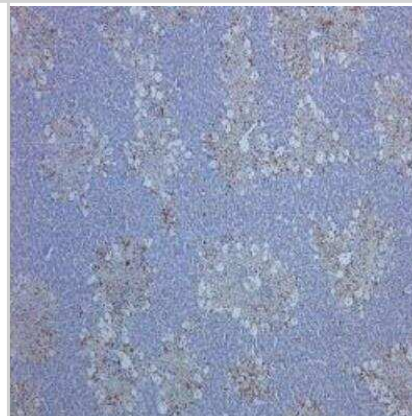
**Immunohistochemistry-Frozen: CD68/SR-D1 Antibody (ED1) [NB600-985]** - The feline macrophage containing section was incubated with the antibody at 1:50 and the section was further stained with Alexa secondary antibody. Image was captured with an epifluorescence microscope. IHC-Fr image submitted by a verified customer review.



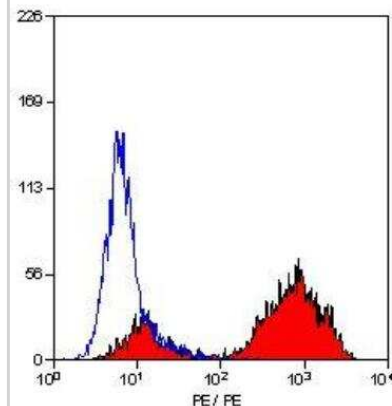
**Flow Cytometry: CD68/SR-D1 Antibody (ED1) [NB600-985]** - Decidual Macrophages were analyzed with a BD LSRFortessa. Antibody was diluted 1:100 in staining buffer before use. Isotype control is in Red. Sample with NB600-985AF700 is in Blue. Image from the Alexa Fluor 700 version of this antibody.



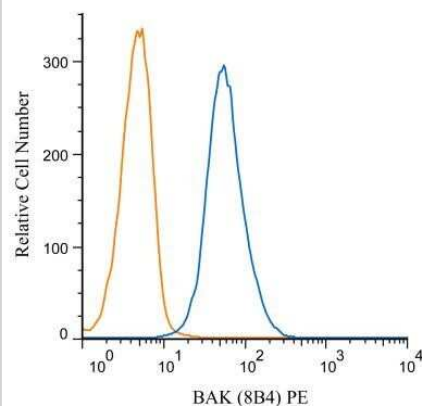
**Immunohistochemistry-Paraffin: CD68/SR-D1 Antibody (ED1) [NB600-985]** - Staining of rat liver



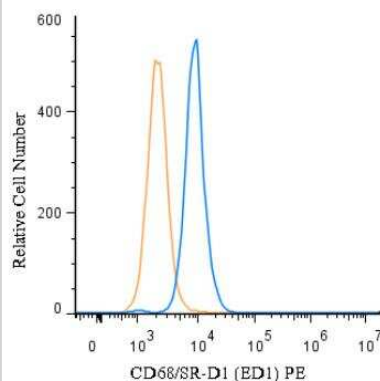
**Flow Cytometry: CD68/SR-D1 Antibody (ED1) [NB600-985]** - Staining of rat peritoneal macrophages cells.



Flow Cytometry: CD68/SR-D1 Antibody (ED1) [NB600-985] - An intracellular stain was performed on Jurkat cells with BAK antibody (8B4) NBP1-74026PE (blue) and a matched isotype control NB600-985PE (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to phycoerythrin. Image using the PE form of this antibody.



Flow (Intracellular): CD68/SR-D1 Antibody (ED1) [NB600-985] - An intracellular stain was performed on U-937 cells with CD68/SR-D1 Antibody (ED1) NB600-985PE (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to phycoerythrin.



## Publications

Zhao B, Li M, Zhang H et al. Proinflammatory polarization of adipose tissue macrophages in cows with subclinical ketosis constitutes a critical driver of adipose tissue remodeling and inflammation *Journal of animal science and biotechnology* 2025-09-29 [PMID: 41024313]

L Li, ZC Yao, A Parian, YH Yang, J Chao, J Yin, KJ Salimian, SK Reddy, A Zaheer, SL Gearhart, HQ Mao, FM Selaru A nanofiber-hydrogel composite improves tissue repair in a rat model of Crohn's disease perianal fistulas *Science Advances*, 2023-01-04;9(1):eade1067. 2023-01-04 [PMID: 36598982] (Flow Cytometry, Mouse)

Yarla NS, Pathuri G, Gali H et al. Discovery and Development of a Novel mPGES-1/5-LOX Dual Inhibitor LFA-9 for Prevention and Treatment of Chronic Inflammatory Diseases *Journal of Inflammation Research* 2020-12-31 [PMID: 33408499] (Flow Cytometry, Mouse)

Zhao B, Li M, Zhang H et Al. M1 polarization of hepatic macrophages in cows with subclinical ketosis is an important cause of liver injury *J Dairy Sci* 2024-12-06 [PMID: 39647630]

Keyan Hu, Lei Liu, Songtao Tang, Xin Zhang, Hongfeng Chang, Wenyang Chen, Taotao Fan, Lesha Zhang, Bing Shen, Qiu Zhang MicroRNA-221-3p inhibits the inflammatory response of keratinocytes by regulating the DYRK1A/STAT3 signaling pathway to promote wound healing in diabetes *Communications Biology* 2024-03-09 [PMID: 38461326]

Baldeon-Gutierrez R, Ohkura N, Yoshida K et al. Wound-healing Processes After Pulpotomy in the Pulp Tissue of Type 1 Diabetes Mellitus Model Rats *Journal of endodontics* 2023-11-07 [PMID: 37939821]

Haba D, Ohmiya T, Sekino M et al. Efficacy of wearable vibration dressings on full-thickness wound healing in a hyperglycemic rat model *Wound repair and regeneration : official publication of the Wound Healing Society [and] the European Tissue Repair Society* 2023-11-11 [PMID: 37950849] (IHC-P, Rat)

Northrup HM Effects of Treatments on the Geometry and Vascular Biomechanics of Arteriovenous Fistulas in Rodents and Patients *Thesis* 2022-01-01

Baek JJ Treatment During Abstinence from Methamphetamine in a Rat Model of Methamphetamine Use Disorder *Thesis* 2022-01-01 (WB, Rat)

Al-Qazazi R, Lima PDA, Prisco SZ Et al. Macrophage-NLRP3 Activation Promotes Right Ventricle Failure in Pulmonary Arterial Hypertension *Am J Respir Crit Care Med* 2022-06-14 [PMID: 35699679] (FLOW, Rat)

### Details:

Citation using the Alexa Fluor 700 version of this antibody.

Somarathna M, Hwang PT, Millican RC Et al. Nitric oxide releasing nanomatrix gel treatment inhibits venous intimal hyperplasia and improves vascular remodeling in a rodent arteriovenous fistula *Biomaterials* 2021-11-18 [PMID: 34836683] (IHC-P, Rat)

Roy Bc, Ahmed I, Stubbs J Et Al. DCLK1 isoforms and aberrant Notch signaling in the regulation of human and murine colitis *Cell death discovery* 2021-06-17 [PMID: 34226497] (IHC-P)

More publications at <http://www.novusbio.com/NB600-985>





### **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 NB600-985**

---

|                  |  |
|------------------|--|
| 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/NB600-985](http://www.novusbio.com/reviews/submit/NB600-985)

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

