

# Product Datasheet

## CD68/SR-D1 Antibody (KP1)

### NBP2-44539-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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



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

#### Publications: 5

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NBP2-44539](http://www.novusbio.com/NBP2-44539)

Updated 8/15/2022 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/NBP2-44539](http://www.novusbio.com/reviews/destination/NBP2-44539)



**NBP2-44539-0.1mg**

CD68/SR-D1 Antibody (KP1)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	KP1
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10mM PBS and 0.05% BSA
Target Molecular Weight	110 kDa

Product Description	
Host	Mouse
Gene ID	968
Gene Symbol	CD68
Species	Human, Feline, Monkey, Canine (Negative), Chicken (Negative), Porcine (Negative)
Marker	Macrophage Marker
Specificity/Sensitivity	This antibody recognizes a glycoprotein of 110kDa, which is identified as CD68. It is important for identifying macrophages in tissue sections. It stains macrophages in a wide variety of human tissues, including Kupffer cells and macrophages in the red pulp of the spleen, in lamina propria of the gut, in lung alveoli, and in bone marrow. It reacts with myeloid precursors and peripheral blood granulocytes. It also reacts with plasmacytoid T cells, which are supposed to be of monocyte/macrophage origin. It shows strong granular cytoplasmic staining of chronic and acute myeloid leukemia and also reacts with rare cases of true histiocytic neoplasia. Lymphomas are negative or show few granules.
Immunogen	Subcellular fraction of human alveolar macrophages

Product Application Details	
Applications	Flow Cytometry, Flow (Intracellular), Immunohistochemistry, Immunohistochemistry-Paraffin, Immunofluorescence
Recommended Dilutions	Flow Cytometry 5 - 10 ul/million cells in 0.1ml, Immunohistochemistry, Immunohistochemistry-Paraffin 1:100-1:200, Flow (Intracellular), Immunofluorescence 1:50 - 1:100
Application Notes	Hu-chromosome location: 17p13.1 Immunohistology (Formalin-fixed) (0.25-0.5ug/ml for 30 minutes at RT) (Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)



## Publications

Larionova I, Patysheva M, Iamshchikov P et al. PFKFB3 overexpression in monocytes of patients with colon but not rectal cancer programs pro-tumor macrophages and is indicative for higher risk of tumor relapse *Frontiers in immunology* 2023-01-17 [PMID: 36733385] (IHC-P, Human)

Details:

1:100 IHC-P dilution

Kazakova E, Rakina M, Sudarskikh T et al. Angiogenesis regulators S100A4, SPARC and SPP1 correlate with macrophage infiltration and are prognostic biomarkers in colon and rectal cancers *Frontiers in oncology* 2023-02-21 [PMID: 36895491] (ICC/IF, Human)

Details:

Dilution: 1:100

Larionova I, Kiselev A, Kazakova E et al. Tumor-associated macrophages respond to chemotherapy by detrimental transcriptional reprogramming and suppressing stabilin-1 mediated clearance of EGF *Frontiers in immunology* 2023-03-07 [PMID: 36960065] (IHC-P, Human)

Details:

Dilution used in IHC-P 1:100

Rakina M, Kazakova E, Sudaskikh T et al. Giant foam-like macrophages in advanced ovarian cancer *Siberian journal of oncology* 2022-05-05 (ICC/IF, IHC-P, Human)

Ducas A, Kuhn D, Bath L et al. Variation in tumor pH affects pH-triggered delivery of peptide-modified magnetic nanoparticles *JVS: Vascular Science* 2020-10-21 [PMID: 33096245] (IHC-P, Mouse)





### **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

### **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/NBP2-44539](http://www.novusbio.com/reviews/submit/NBP2-44539)

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

