

Product Datasheet

CD68/SR-D1 Antibody (KP1) NBP2-44539-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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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.

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