Product Datasheet

CD68/SR-D1 Antibody (SPM130)
NBP2-32831-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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Reviews: 2 Publications: 8

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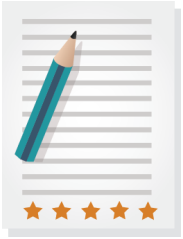
Updated 10/23/2024 v.20.1



NBP2-32831-0.1mg

CD68/SR-D1 Antibody (SPM130)

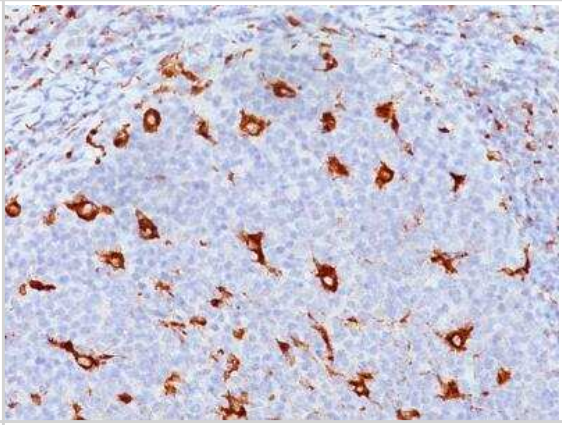
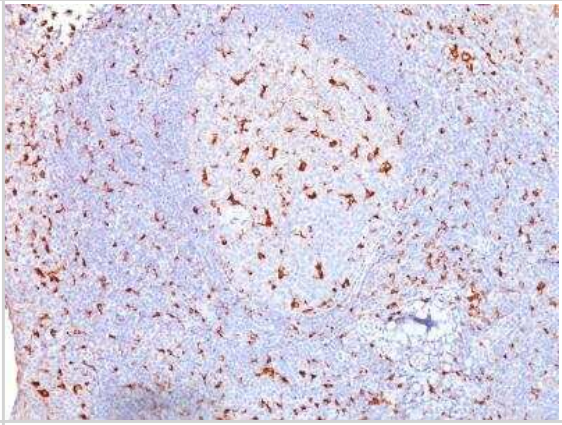
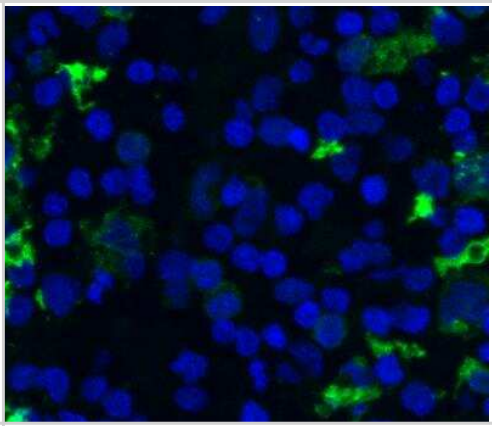
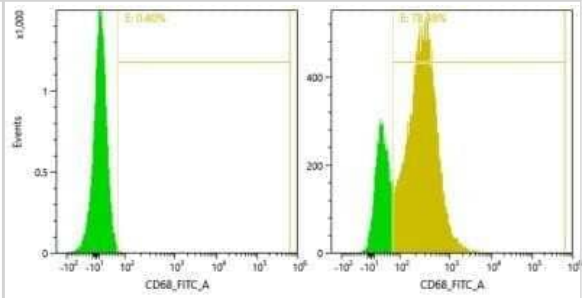
Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	SPM130
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	110 kDa

Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-34736) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	968
Gene Symbol	CD68
Species	Human, Feline, Monkey, Rabbit, Canine (Negative), Chicken (Negative), Porcine (Negative)
Reactivity Notes	Does not react with Porcine, Canine or Chicken.
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

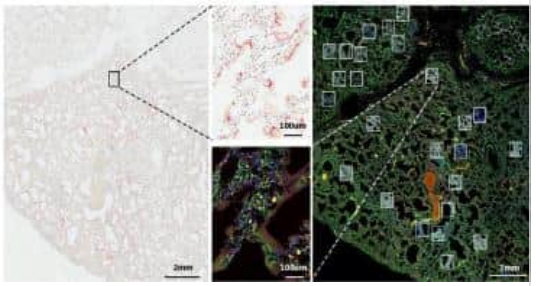
Product Application Details	
Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml, Immunohistochemistry-Frozen 0.5-1.0ug/ml

Application Notes	Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

Images

Immunohistochemistry-Paraffin: CD68/SR-D1 Antibody (SPM130) [NBP2-32831] - Formalin-fixed, paraffin-embedded human tonsil (20X) stained with CD68 MAb (SPM130).	
Immunohistochemistry-Paraffin: CD68/SR-D1 Antibody (SPM130) [NBP2-32831] - Formalin-fixed, paraffin-embedded human tonsil (10X) stained with CD68 MAb (SPM130).	
Immunohistochemistry-Frozen: CD68/SR-D1 Antibody (SPM130) [NBP2-32831] - The antibody was incubated with feline spleen section at 1:100 and the slide was further stained with Alexa secondary antibody. Image was captured with epifluorescence microscope. This image was submitted via customer review.	
Flow Cytometry: CD68/SR-D1 Antibody (SPM130) [NBP2-32831] - Flow Cytometry: CD68/SR-D1 Antibody (SPM130) [Biotin] [NBP2-34736B] - Mouse peripheral blood cells were unstained (left) or stained (right) with CD68/SR-D1 antibody and anti-biotin alexa-fluor 488 secondary antibody. Image from verified customer review.	

Immunohistochemistry: CD68/SR-D1 Antibody (SPM130) [NBP2-32831] - Intrapulmonary heterogeneity of SARS-CoV-2 host response. Selection of ROIs. Left) SARS-CoV-2 RNA-ISH staining was used to guide ROI selection of viral positive and viral negative regions. (Scale bar = 2 mm). Right) multi-color immunofluorescence staining for CD45/red (NBP2-34527AF647), CD68/yellow (NBP2-34736AF594), PanCK/green, and DNA/blue were used in parallel to select ROIs. (Scale bar = 2 mm). Example ROIs are shown in insets. (Scale bar = 100 um). Image collected and cropped by CiteAb from the following publication (//pubmed.ncbi.nlm.nih.gov/33298930/) licensed under a CC-BY license.



Publications

JJ Wu, ZL Sun, SY Liu, ZH Chen, ZD Yuan, ML Zou, YY Teng, YY Li, DY Guo, FL Yuan The ASIC3-M-CSF-M2 macrophage-positive feedback loop modulates fibroblast-to-myofibroblast differentiation in skin fibrosis pathogenesis Cell Death & Disease, 2022-06-06;13(6):527. 2022-06-06 [PMID: 35661105]

Sun SY, Yan QQ, Qiao LN et al. Electroacupuncture Alleviates Pain Responses and Inflammation in Collagen-Induced Arthritis Rats via Suppressing the TLR2/4-MyD88-NF-?B Signaling Pathway Evidence-based complementary and alternative medicine : eCAM 2023-02-04 [PMID: 36785752] (IHC, Rat)

Park J, Foox J, Hether T Et al. System-wide transcriptome damage and tissue identity loss in COVID-19 patients Cell Rep Med 2022-03-02 [PMID: 35233546] (IHC-P, Human)

Details:
Citation using the Alexa Fluor 647 version of this antibody.

Wong-Rolle A, Dong Q, Zhu Y Et al. Spatial meta-transcriptomics reveal associations of intratumor bacteria burden with lung cancer cells showing a distinct oncogenic signature J Immunother Cancer 2022-07-06 [PMID: 35793869] (IHC-P, Human)

Details:
Citation using the Alexa Fluor 647 version of this antibody.

Maldonado LAG, Nascimento CR, Rodrigues Fernandes NA et al. Influence of tumor cell-derived TGF-β on macrophage phenotype and macrophage-mediated tumor cell invasion The international journal of biochemistry & cell biology 2022-12-01 [PMID: 36343916] (IHC-P, Human)

Desai, N, Neyaz, A Et al. Temporal and spatial heterogeneity of host response to SARS-CoV-2 pulmonary infection. Nat Commun 2020-12-09 [PMID: 33298930] (Human)

Butler D, Mozsary C, Meydan C et al. Shotgun transcriptome, spatial omics, and isothermal profiling of SARS-CoV-2 infection reveals unique host responses, viral diversification, and drug interactions Nat Commun 2021-03-13 [PMID: 33712587] (IF/IHC, Human)

Details:
Citation using the Azide and BSA Free format of this antibody.

Desai N, Neyaz A, Szabolcs A et al. Temporal and Spatial Heterogeneity of Host Response to SARS-CoV-2 Pulmonary Infection medRxiv 2020-08-02 [PMID: 32766600] (IHC-P, Human)

Details:
Citation using the Azide and BSA Free format of this antibody.

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Products Related to NBP2-32831-0.1mg

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP2-53081-50ug	Recombinant Human CD68/SR-D1 His Protein

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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