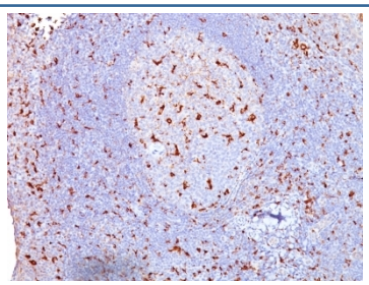
CD68 Antibody SPM130 / Mouse Monoclonal [clone SPM130] (V9107)

Catalog No.	Formulation	Size
V9107-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V9107-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V9107SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V9107IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Citations (2)

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	SPM130
Purity	Protein G affinity chromatography
UniProt	P34810
Localization	Cytoplasmic, membrane
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This CD68 Antibody SPM130 is available for research use only.



CD68 Antibody SPM130 Human Tonsil IHC. Immunohistochemical staining of formalin-fixed, paraffin-embedded human tonsil using CD68 Antibody SPM130 / Mouse Monoclonal. Strong brown cytoplasmic staining is observed in macrophages distributed throughout the lymphoid tissue, with prominent labeling within and surrounding germinal centers, consistent with the expected expression pattern of CD68. This CD68 Antibody, clone SPM130, provides reliable immunohistochemical detection of tissue macrophages and is well suited for studies of innate immunity, inflammatory responses and macrophage biology.

Description

CD68 Antibody SPM130 / Mouse Monoclonal recognizes CD68 using the mouse monoclonal clone SPM130. CD68 is a lysosome-associated transmembrane glycoprotein that is highly expressed by macrophages, monocytes and other cells of the mononuclear phagocyte system. As one of the most widely used macrophage markers, CD68 is routinely employed to identify tissue macrophages, evaluate inflammatory infiltrates and investigate innate immune responses in both healthy and diseased tissues. NSJ Bioreagents offers CD68 Antibody, clone SPM130, to support reliable detection of CD68 across a variety of immunological research applications.

CD68 is localized primarily within lysosomes and endosomal compartments, reflecting the specialized phagocytic function of macrophages. Tissue-resident CD68-positive macrophages are abundant in organs including spleen, liver, lung, lymph node and brain, where they participate in pathogen clearance, antigen processing, tissue remodeling and maintenance of immune homeostasis. CD68 Antibody, clone SPM130 is well suited for studies examining macrophage localization, activation and distribution in both normal tissues and experimental disease models.

Altered CD68 expression is frequently associated with chronic inflammation, autoimmune disorders, infectious disease, fibrosis, neurodegeneration and cancer. Quantification of CD68-positive macrophages is commonly used to assess inflammatory burden, characterize tumor-associated macrophages and monitor changes within the tissue microenvironment. The SPM130 clone has been utilized in multiple peer-reviewed publications, providing researchers with a well-documented mouse monoclonal reagent for reproducible CD68 detection.

An CD68 Antibody is a valuable reagent for detecting macrophages by Western blotting, immunohistochemistry, immunofluorescence, flow cytometry and related immunoassays. A Mouse Monoclonal CD68 antibody supports investigations of macrophage biology, innate immunity, inflammatory disease, lysosomal function and tissue-resident mononuclear phagocytes.

For an overview of CD68 biology and to view Protein Microarray Validated specificity data generated with our LAMP4/1830 clone, visit our CD68 Antibody / Macrophage Marker Antibody page.

Application Notes

The optimal dilution of the CD68 Antibody SPM130 for each application should be determined by the researcher.

1. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 minutes.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

A human alveolar macrophage subcellular fraction was used as the immunogen for this anti-CD68 antibody.

Storage

Store the anti-CD68 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

CD68 antibody, SPM130 antibody, Macrophage Marker antibody, Macrosialin antibody

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