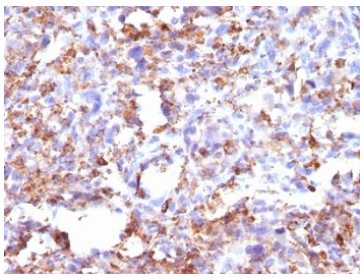
CD68 Antibody CD68/G2 / Mouse Monoclonal [clone CD68/G2] (V3032)

Catalog No.	Formulation	Size
V3032-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3032-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3032SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3032IHC-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 (1)

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	CD68/G2
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 CD68/G2 is available for research use only.



CD68 Antibody CD68/G2 Human Histiocytoma IHC. Immunohistochemical staining of formalin-fixed, paraffin-embedded human histiocytoma using CD68 Antibody CD68/G2 / Mouse Monoclonal. Strong brown cytoplasmic staining is observed in neoplastic histiocytic cells, consistent with the expected expression of CD68 in cells of the monocyte/macrophage lineage. This CD68 Antibody, clone CD68/G2, provides reliable immunohistochemical detection of CD68-positive histiocytic cells and is well suited for studies of macrophage biology, histiocytic neoplasms and innate immune cell identification.

Description

CD68 Antibody CD68/G2 / Mouse Monoclonal recognizes CD68 using the mouse monoclonal clone CD68/G2. CD68 is a lysosome-associated transmembrane glycoprotein that is highly expressed by macrophages, monocytes and other cells of the mononuclear phagocyte system. Owing to its abundant expression in tissue macrophages, CD68 has become one of the most widely used biomarkers for identifying macrophage populations, evaluating inflammatory infiltrates and studying innate immune responses. NSJ Bioreagents offers CD68 Antibody, clone CD68/G2, to support reproducible detection of CD68 in a variety of immunological and cell biology applications.

CD68 is predominantly localized to lysosomal and endosomal compartments, reflecting the highly phagocytic nature of macrophages. It is expressed by resident macrophages in tissues including liver, spleen, lung, lymph node and brain, where these cells contribute to pathogen clearance, antigen processing, tissue remodeling and immune surveillance. CD68 Antibody, clone CD68/G2 is therefore well suited for studies examining macrophage localization, activation and distribution in normal tissues as well as experimental disease models.

Changes in CD68-positive cell abundance are commonly associated with chronic inflammation, autoimmune disease, infection, fibrosis, cardiovascular disease, neurodegeneration and cancer. Quantification of CD68 expression is frequently used to evaluate macrophage infiltration, monitor inflammatory progression and characterize the immune microenvironment. A well-defined mouse monoclonal clone such as CD68/G2 provides researchers with consistent epitope recognition for studies requiring reproducible detection of CD68 across multiple experiments.

A 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

Optimal dilution of the CD68 Antibody CD68/G2 should be determined by the researcher.

1. Staining of formalin/paraffin tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.
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

Recombinant human protein was used as the immunogen for the CD68 antibody.

Storage

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

Alternate Names

CD68 antibody, CD68/G2 antibody, Macrophage Marker antibody, Macrosialin antibody

Copyright © NSJ Bioreagents. All rights reserved.