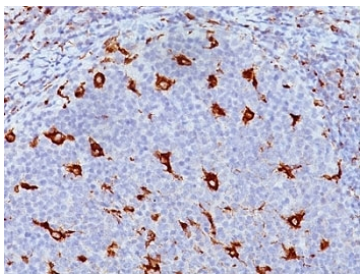
CD68 Antibody KP1 / KP1 Antibody [clone KP1] (V3175)

Catalog No.	Formulation	Size
V3175-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3175-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3175SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3175IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

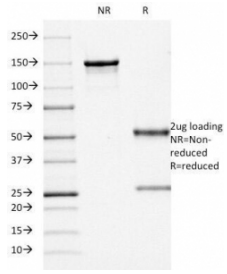
Citations (11)

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	KP1
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 KP1 / KP1 Antibody is available for research use only.



CD68 Antibody KP1 Human Tonsil IHC. Immunohistochemical staining of formalin-fixed, paraffin-embedded human tonsil tissue using CD68 Antibody KP1 / KP1 Antibody. Strong cytoplasmic staining highlights numerous CD68-positive macrophages distributed throughout the tonsillar tissue, consistent with the expected localization of resident phagocytic cells within secondary lymphoid organs. The well-characterized KP1 clone provides robust detection of tissue macrophages, making it a widely used reagent for studies of innate immunity, inflammation and tumor-associated macrophage biology. This CD68 Antibody, clone KP1, is well suited for immunohistochemical identification of macrophage populations in normal and diseased tissues.



CD68 Antibody KP1 SDS-PAGE Purity Analysis. SDS-PAGE analysis of purified, BSA-free CD68 Antibody KP1 / KP1 Antibody under non-reducing (NR) and reducing (R) conditions confirms antibody integrity and high purity. A predominant band corresponding to intact IgG is observed under non-reducing conditions, while the expected heavy and light chains are resolved following reduction. The absence of significant contaminating proteins demonstrates a highly purified antibody preparation suitable for research applications. This CD68 Antibody, clone KP1, provides a well-characterized reagent for macrophage detection and immunological studies.

Description

CD68 Antibody KP1 / KP1 Antibody recognizes CD68 using the well-established mouse monoclonal clone KP1, one of the most widely cited antibodies for identifying macrophages in research and diagnostic pathology. CD68 is a heavily glycosylated lysosomal membrane protein expressed predominantly by macrophages, monocytes and other cells of the mononuclear phagocyte system. Because of its robust staining of tissue macrophages and broad use in formalin-fixed, paraffin-embedded specimens, the KP1 clone has become a trusted reagent for studies of innate immunity, inflammatory disease and tissue pathology. NSJ Bioreagents offers the KP1 clone to support reliable macrophage detection across a wide range of experimental applications.

CD68 is localized primarily to intracellular lysosomes and endosomes, where it participates in endocytic and phagocytic processes associated with macrophage function. Tissue-resident macrophages expressing CD68 are found throughout the body, including liver, spleen, lung, lymph node, bone marrow and central nervous system. The KP1 clone is widely used to visualize these cells in normal tissues and disease, making it an important tool for evaluating immune cell infiltration, tissue remodeling and inflammatory responses.

The KP1 clone has been referenced in thousands of peer-reviewed publications and is extensively used in oncology, immunology, neuropathology and cardiovascular research. CD68-positive macrophages are routinely quantified in studies of tumor-associated macrophages, chronic inflammation, atherosclerosis, autoimmune disease and neurodegeneration, where macrophage abundance and distribution provide valuable insight into disease progression and the tissue microenvironment. The extensive literature supporting the KP1 clone makes it a valuable reference reagent for laboratories seeking continuity with previously published studies.

A CD68 Antibody is a valuable reagent for detecting macrophages by Western blotting, immunohistochemistry, immunofluorescence, flow cytometry and related immunoassays. A KP1 Antibody supports reproducible identification of CD68-positive macrophages for investigations of innate immunity, inflammatory responses and tissue-resident phagocyte biology.

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 KP1 / KP1 Antibody 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

The subcellular fraction of human alveolar macrophages was used as the immunogen for this 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 KP1 antibody, KP1 antibody, CD68 antibody, Macrophage Marker antibody

Copyright © NSJ Bioreagents. All rights reserved.