INNOVEX biosciences

Monoclonal Antibodies to CD68

Technical Data Sheet

Reagent Category
Mouse Monoclonal primary antibody to CD68

Antibody Format Supplied
☐ 7 ml of anti CD68, Ready-To-Use
☐ 0.2 ml of anti CD68, Concentrate

PRODUCT No: MAB894P (Ready-To-Use)
PRODUCT No: MAB894C (Concentrate)

SOURCE: Cultured supernatant

IMMUNOGLOBULIN ISOTYPE: Mouse IgG

CLONE: KP1

REACTIVITY
CD68 has been shown to be present on stimulated T cells, NK cells, myeloid precursor cells and monocytes, macrophages and granulocytes. CD68 is also present on lymphomas, carcinomas and sarcomas, other tissues such as liver and renal tubules have also demonstrated the presence of CD68. This CD68 antibody is used to stain mononuclear phagocytic cells such as monocytes and macrophages. CD68 is especially useful in Immunohistochemical IHC & ICC staining and in fluorescence labeling of macrophages in such tissues as bone marrow, red pulp of the spleen, lung, alveoli and the Kupffer cells of liver. This antibody is suitable for use on routinely fixed paraffin embedded and frozen sections. This antibody is compatible with formalin fixative as well as most commonly used histological fixatives. **This antibody best stains when retrieved with Uni-Trieve, a Mild Temperature Retrieval Solution at 70°C using a water bath. CD markers are heat labile and are easily destroyed by high heat and pressure; Avoid Retrieving with pressure cooker and microwave. *To retrieve with Uni-Trieve, see Uni-Trieve protocol section of this data sheet.***

POSITIVE CONTROL TISSUE: Small intestine; Lymph node

SPECIES REACTIVITY: This antibody's reactivity with human, mouse, rat and monkey has been substantiated; other species reactivity may be characterized by the end user.

STAINING PATTERN: Cytoplasmic and to lesser extent membrane staining

Antibody FORMAT, DILUTION and INCUBATION
This CD68 affinity-purified mouse monoclonal antibody is provided in CytoQ ImmunoDiluent for maximum stability (Innovex product # NB307).

☐ 7 ml of Ready-To-Use; *Do not dilute*. Incubate for 30-minutes.

☐ 0.2 ml of Concentrate, for paraffin section staining: Dilute 1:40 for 30-minute incubation; Dilute 1:80 for 1-hour incubation.

UNI-TRIEVE PROTOCOL for Retrieval using a water bath
For Background-Free, easy and gentle retrieval, retrieving with Innovex Uni-Trieve 70°C Universal Retrieval Solution is highly recommended. To retrieve with Uni-Trieve: Warm up a water bath to 70°C and fill a slide holding container such as a coplin jar with Uni-Trieve solution, insert a thermometer in the jar containing Uni-Trieve solution and place the jar in the water bath; Bring the Uni-Trieve solution to 70°C and Place slides this pre-warmed (70°C) Uni-Trieve solution. Let slides incubate in 70°C Uni-Trieve for 30-minutes. Remove slides from Uni-Trieve solution and place them in an empty coplin jar and rinse slides with 4 quick changes of water by filling and emptying the jar with water 4 times. No cooling period is required; Proceed with IHC, ICC staining or with fluorescence labeling (IF).
For demonstration for use of Uni-Trieve visit web page:
http://www.innovexbio.com/products/unitrieve

The above dilutions and incubation times were derived by the use of Innovex STAT-Q and HISTO-STAT staining systems. For less sensitive detection systems these dilution factors may be lower and must be determined by the end user for specific detection system and tissues employed.

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APPLICATIONS

This antibody is intended for use in immunolocalization of CD68 by a variety of immunoassays such as Immunohisto/cytochemistry (IHC & ICC)), immunofluorescent labeling (IF), ELISA, Immunoblotting and dot blotting. For IHC, ICC and IF, this antibody can be used for staining routinely fixed paraffin embedded or frozen histological sections for the purpose of qualitative localization of CD68. This antibody can also be used for quantitative flow cytometric assays by the indirect method.

APPROPRIATE NEGATIVE CONTROL Reagent for staining negative control slide

Employ IgG isotype control, (this product is available in Ready-To-Use and concentrate formats from Innovex **product number NG903**). Isotype control is placed on negative control slide in place of primary antibody when staining negative contr slides for this antibody. Observe the same incubation time and staining condition for negative control slides and positive control slides.

STORAGE CONDITIONS

Store in refrigerator at 2-8^{o}C through expiration date noted on the vial.

IMPORTANT NOTE:

The interpretation of test results is the sole responsibility of the end user.

FOR PROFESSIONAL AND RESEARCH USE

FOR ADDITIONAL TECHNICAL SUPPORT
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