



Monoclonal Antibodies to CD68

Technical Data Sheet

Reagent Category

Monoclonal primary antibody to CD68

PRODUCT# IMI17161E (Ready-To-Use)

PRODUCT# IMI17152E (Concentrate)

Antibody Formats Supplied

7 ml of anti CD68, Ready-To-Use

0.2 ml of anti CD68, Concentrate

SOURCE: Cultured supernatant

IMMUNOGLOBULIN ISOTYPE: 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 monocyte and macrophages. CD 68 is also especially useful in Immunohistochemical staining of macrophages in such tissues as in 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.

POSITIVE CONTROL TISSUE: Small intestine/ Lymph node

STAINING PATTERN: Cytoplasmic

Antibody FORMAT, DILUTION and INCUBATION

This affinity-purified monoclonal antibody is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.1% sodium azide.

7 ml of Ready-To-Use, Do not dilute. Incubate for 30 minutes. This antibody best stains when formalin fixed paraffin embedded sections are retrieved.

For Background-Free and easy retrieval, Innovex Uni-Trieve (60°-70°C) universal retrieval solution is highly recommended. To retrieve with Uni-Trieve: Warm up a water bath to 60°-70°C and fill a slide holding container with Uni-Trieve solution. Place slides in a slide rack and immerse slides in a vessel or a coplin jar containing Uni-Trieve solution, bring the Uni-Trieve solution and slides to 60°-70°C and let slides incubate at 60°-70°C for 30 minutes. Rinse slides with 2 quick changes of water; No cooling period is required. Proceed with immunostaining.

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□ **0.2 ml of Concentrate, for paraffin section staining: Dilute 1:50 for 30-minute incubation, 1:80 for 1-hour incubation. The dilution factors are considerably higher for 2 hours to over-night incubation.**

The dilution factor for frozen section staining and other applications are also considerably higher and must be determined by the end user for the application and the secondary staining reagents employed.

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THE SUGGESTED STARTING DILUTION FACTORS ARE MERE GUIDELINES ONLY. OPTIMAL DILUTION FACTORS MUST BE DETERMINED BY THE END USER FOR THE SECONDARY STAINING REAGENTS, SPECIMEN, STAINING PROTOCOL AND APPLICATION EMPLOYED.

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 vary and they should be determined by the end user for specific detection system employed.

APPLICATIONS

This antibody is intended for use in immunolocalization of CD68 by a variety of immunoassays such as Immunocytochemistry, fluorescent labeling, ELISA, Immunoblotting and dot blotting. In immunocytochemistry, this antibody can be used in 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 in the indirect method.

SPECIES REACTIVITY

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

STORAGE CONDITIONS

Store in refrigerator at 2-8°C through expiration date noted on the vial.

IMPORTANT NOTE:

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

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