



Monoclonal Antibody to Anti-Human CD117

Technical Data Sheet

Reagent Category

Monoclonal primary antibody to CD117

Antibody Formats Supplied

0.2 ml of anti CD117, Concentrate

PRODUCT# IMI13452E (Concentrate)

SOURCE: Cultured supernatant

IMMUNOGLOBULIN ISOTYPE: IgG1

POSITIVE CONTROL TISSUE: Skin

CLONE: T595

REACTIVITY

CD117 oncoprotein also known as stem cell factor receptor is related to the platelet derived growth factor receptor family and it encodes for a transmembrane receptor with tyrosine kinase activity. CD117 is expressed in mast cells, normal breast epithelium, breast carcinomas, glial cells, small lung cell carcinomas, glioblastomas, and melanomas. This antibody is suitable for use on routinely fixed paraffin embedded or frozen sections or cell smears/ cytopspins. It is compatible with formalin fixed tissues/cells and with other commonly used histological fixatives.

STAINING PATTERN: Membrane staining

Antibody FORMAT, DILUTION and INCUBATION

Monoclonal mouse anti CD117 antibody is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.05% sodium azide. This antibody is available in:

0.2 ml of concentrate. The working titer must be determined by the end user. **The suggested starting dilution:** 1:30 for 30 minutes to one-hour incubation for staining paraffin sections.

THE SUGGESTED STARTING DILUTION FACTORS AND INCUBATION TIME RANGE ARE PROVIDED AS MERE GUIDELINE. OPTIMAL DILUTION FACTORS MUST BE DETERMINED BY THE END USER FOR THE SECONDARY STAINING REAGENTS, SPECIMEN AND STAINING PROTOCOL 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

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SPECIAL USAGE GUIDANCE

This antibody requires a signal enhancing pre-treatment step for staining paraffin sections, **For paraffin staining section, the use of Innovex STAT-Q Staining system, product # IMI01813E and Innovex Signal-Enhancing Wash Buffers** (Item#: IMI00396E for Immuno-Peroxidase staining and Item#: IMI00596E for Immuno-Alkaline-phosphatase) in place of PBS or tris buffer for the rinsing steps in between the incubation steps is **highly recommended for this antibody**. The use of Innovex Signal Enhancing Wash buffer **amplifies staining signal, eliminates the need for enzyme digestion pre treatment, heat application** (retrieval procedure) **and shortens the incubation time for the primaries antibodies without addition of any extra steps to immunostaining procedures**. In the absence of Innovex staining system mentioned above, the user may be able to obtain staining by the use of high heat antigen unmasking methods.

APPLICATIONS

This antibody is intended for use in immunolocalization of CD117 antigen in human tissue by a variety of immunoassays such as Immunochemistry, ELISA, Immunoblotting, dot blotting and for use in functional assays in adhesion research. In immunochemistry, this antibody can be used in staining routinely fixed paraffin embedded or frozen histological sections for the purpose of qualitative localization of CD117 antigen. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

SPECIES REACTIVITY

This antibody reactivity with human 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.

FOR IN VITRO RESEARCH USE ONLY