American MasterTech
scientific laboratory supplies
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Polyclonal Antibody to
Alpha-1-Antichymotrypsin (ACT)

Technical Data Sheet

Reagent Category
Polyclonal primary antibody to ACT

Antibody Formats Supplied
☐ 7 ml of anti alpha-1-antichymotrypsin , Ready-To-Use
☐ 0.2 ml of anti alpha-1-antichymotrypsin, Concentrate

PRODUCT# IMI10661E (Ready-To-Use)
PRODUCT# IMI10652E (Concentrate)

SOURCE: Rabbit

IMMUNOGLOBULIN ISOTYPE: IgG1

POSITIVE CONTROL TISSUE: Tonsil

REACTIVITY
Anti alpha-1-antichymotrypsin (ACT) is expressed in various tumors; it is used in the detection of ACT expression in both normal and tumor tissues. ACT is generally used as a histiocyte marker and in detection of monocytes and macrophages. ACT is a serine protease inhibitor and it may be closely associated with tumor progression. ACT expression has been linked to prostate cancers and also with the early to late stages of amyloid deposition and senile plaque formation in Alzheimer's disease by IHC staining. This antibody is compatible with formalin fixative paraffin embedded tissues as well as most commonly used histological fixatives.

Antibody FORMAT, DILUTIONS and INCUBATIONS
This affinity purified monoclonal anti Alpha-1-antichymotrypsin antibody is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.05% sodium azide.

☐ **7 ml of Ready-to-Use, *Do not dilute.* Incubate for 20 minutes. Retrieval with Innovex Uni-Trieve (60°C) is highly recommended, This antibody best stains when formlin fixed paraffin embedded tissue sections are retrieved, for best staining results the use of Uni-Trieve, Innovex 60°C retrieval technology is highly recommended. Warm up a water bath or an oven to 60°C and fill a slide holding container with Uni-Trieve solution. Bring the Uni-Trieve solution to 60°C and incubate the slides in 60°C Uni-Trieve solution for 30 minutes. Rinse slides with 2 quick changes of water; No cooling period is required. Proceed with immunostaining.**

☐ **0.2 ml of concentrate; For 30-minute incubation, dilute 1:50-1:100;** For longer incubation time the working titer must be determined by the end user. The provided dilution factors and incubation time are mere guidelines, the incubation time and the working titer must be determined by the end user for the tissue and the secondary staining reagents employed.
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holding container with Uni-Trieve solution. Bring the Uni-Trieve solution to 60°C and incubate the slides in 60°C Uni-Trieve solution for 30 minutes. Rinse slides with 2 quick changes of water; No cooling period is required. Proceed with immunostaining.

The above dilutions and incubation times were derived by the use of Innovex STAT-Q and HISTO-STAT Staining systems and the use of INNOVEX Enhancing Wash Buffer (see special usage guidance below). For less sensitive detection systems dilution factor may vary and they must be determined by the end user for specific detection system and the specimen employed.

APPLICATIONS

This antibody is intended for use in immunolocalization of Alpha-1-antichymotrypsin by a variety of immunoassays such as IHC, fluorescent labeling, ELISA, Immunoblotting and dot blotting. In (IHC), this antibody can be used in staining routinely fixed paraffin embedded or frozen histological sections of human or animal tissues for the purpose of qualitative or quantitative localization of Alpha-1-antichymotrypsin. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

SPECIES REACTIVITY

This antibody reactivity with human tissues 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