

## **Cytokeratin (AE-1/AE-3) Blend Monoclonal Antibody**

### *Technical Data Sheet*

#### Reagent Category

Monoclonal primary antibody to AE1/AE3

ITEM#: IMI20461E (Ready-To-Use)

ITEM#: IMI20452E (Concentrate)

#### Antibody Formats Supplied

7 ml of anti AE1/AE3, Ready-To-Use

0.5 ml of anti AE1/AE3, Concentrate

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**SOURCE:** Mouse ascites fluid

**IMMUNOGLOBULIN ISOTYPE:** Human epidermis callous keratins

**Clone:** AE1/AE3

#### **REACTIVITY**

AE1/AE3 monoclonal cocktail of cytokeratin antibodies contain anti AE1 cytokeratin that predominantly recognizes low and intermediate molecular weight acidic cytokeratins of 40-56 Kd and anti AE3 cytokeratin that recognizes high molecular weight basic cytokeratins of 46-67 kD. AE1/AE3 cytokeratin cocktail is often utilized in the studying and defining epithelial tumors.

This cocktail of AE1/AE3 monoclonal antibody is reactive with low and high molecular weights cytokeratins found in epithelial tissues. AE1/AE3 cocktail stains all keratinized and non-keratinized epithelia. This antibody is suitable for use on routinely fixed paraffin embedded and frozen sections and it is compatible with formalin fixed tissues.

**POSITIVE CONTROL TISSUE:** Skin or adenocarcinoma

**STAINING PATTERN:** Cytoplasmic

#### **Antibody FORMATS, DILUTIONS and INCUBATIONS**

This affinity purified monoclonal AE1/AE3 antibody is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.05% sodium azide.

**7 ml of pre-diluted, Ready-to-Use:** Do not dilute. Incubate for 30 minutes. This antibody requires heat retrieval.

*The above dilutions and incubation times were derived times by the use of Innovex STAT-Q and HISTO-STAT detection 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.*

**0.5 ml of concentrate:** The guideline for starting dilution range may vary from 1:30 to 1:50. The dilution factor must be determined by the end user for the secondary reagent and protocol employed.

## **SPECIAL USAGE GUIDANCE**

Histo or cyto-staining of cytokeratins often require proteolytic enzyme digestion (pepsin or trypsin), however, **the use of Innovex Signal Enhancing wash Buffers (Item#: IMI00596E & Item#: IMI00396E) for the rinsing in between the incubation steps eliminates the need for enzyme digestion pre-step when staining cytokeratins.**

## **APPLICATIONS**

This antibody is intended for use in immunolocalization of cytokeratin proteins in human or animal tissue by a variety of immunoassays such as Immunochemistry, fluorescent labeling, ELISA, Immunoblotting and dot blotting. In immunochemistry, this antibody can be used in staining routinely fixed paraffin embedded or frozen histological sections for the purpose of qualitative localization of cytokeratin proteins. 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 2-6°C through the noted expiration date on the vial label.

## **IMPORTANT NOTE:**

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

***FOR IN VITRO RESEARCH USE ONLY***

**FOR ADDITIONAL TECHNICAL SUPPORT:**



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