



## Monoclonal Antibodies to Epithelial Specific Antigen (ESA)

### *Technical Data Sheet*

#### Reagent Category

Monoclonal primary antibodies to  
Epithelial Specific Antigen (ESA)

#### Antibody Formats Supplied

- 7 ml of anti ESA, Ready-To-Use
- 0.2 ml of anti ESA, Concentrate

PRODUCT# IMI22461E (Ready-To-Use)

PRODUCT# IMI22452E (Concentrate)

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**SOURCE:** Mouse ascites fluid

**IMMUNOGLOBULIN ISOTYPE:** IgG1

**CLONE:** VU-1D9

#### **SPECIFICATIONS & REACTIVITY**

This antibody recognizes a glycoprotein of 40 kD cell surface antigen called Epithelial Specific Antigen (ESA) and it is often used to demonstrate epithelial specificity. This molecule is also detected by several other antibodies such as **Ber-EP4, 27-1A, 323/A3, MOC-31, GA733, HEA 125** and others. This antibody is reactive with most epithelial cells and carcinomas. This antibody is suitable for use on routinely fixed paraffin embedded or frozen sections. It is compatible with formalin fixed tissues and with other commonly used histological fixatives.

**STAINING PATTERN:** Membrane staining

#### **Antibody FORMAT, DILUTIONS and INCUBATIONS**

Affinity purified monoclonal ESA antibody is provided in phosphate buffered saline pH 7.4 containing bovine serum albumin (BSA) and 0.1% sodium azide.

**7 ml of pre-diluted, Ready-to-Use; Do not dilute. Incubate for 10 minutes for paraffin sections** The incubation of up to 30 minutes will not adversely effect the results.

**0.2 of Concentrate: The suggested starting dilution for 30-minute incubation is 1:50 for paraffin sections and 1:100 for frozen sections. The ultimate working dilution and incubation time must be determined by the end user for the incubation time and the secondary reagents employed.**

*The above dilutions and incubation times were derived by the use of Innovex STAT-Q and HISTO-STAT (2-step) 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.*

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## **SPECIAL USAGE GUIDANCE**

No pre-treatment is necessary, however, for best staining results, the use of 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 in between the incubation steps is highly recommended. The use of Enhancing Wash Buffers greatly enhances staining signals for antigenically weak or for overfixed tissues. **Its use further eliminates the need for enzyme Pre-digestion, heat application (retrieval procedure), long incubation of primaries and repetitive procedures.**

## **APPLICATIONS**

This antibody is intended for use in immunolocalization of epithelial specific antigens by a variety of immunoassays such as Immunocytochemistry, 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 and /or quantitative localization epithelial surface antigens. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

**POSITIVE CONTROL TISSUE:** Colon

## **SPECIES REACTIVITY**

This antibody reactivity with human tissue 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***