



## Monoclonal (mouse) Antibody to Human Epidermal Growth Factor Receptor (EGFR)

### *Technical Data Sheet*

#### Reagent Category

Monoclonal primary antibody to EGFR

PRODUCT# IMI22261E (Ready-To-Use)

PRODUCT# IMI22252E (Concentrate)

#### Antibody Formats Supplied

5 ml of anti EGFR, Ready-To-Use

0.2 ml of anti EGFR, Concentrate

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**SOURCE:** Mouse ascites fluid

**IMMUNOGLOBULIN ISOTYPE:** IgG1

**CLONE:** 29.1.1

#### **REACTIVITY**

The epidermal growth factor receptor is an integral cell membrane protein of 170 kD that is present on a wide variety of both normal and malignant epithelial cells. EGFR has an extracellular region which binds epidermal growth factor (EGF) and an intracellular region with tyrosine kinase activity. The binding of EGF to EGFR results in increased DNA synthesis as well as other cellular events such as cell proliferation, differentiation and repair of damaged epithelial cells. High levels of EGFR have been observed in sarcomas, breast, bladder, gliomas and lung tumors. This antibody is suitable for staining routinely fixed, paraffin embedded and frozen histological sections.

**POSITIVE CONTROL TISSUE:** Lung/ Breast carcinoma

**STAINING PATTERN:** Membrane and cytoplasmic

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

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

**5 ml of Ready-to-Use, Do not dilute. Incubate for 30 minutes to 1 hour. 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 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.*

**0.2 ml Concentrate, Starting dilution for 30 minutes to 1 hour incubation 1:50.** For longer incubation time the titer should be determined by the end user. All concentrated antibodies must be titered by the user for the secondary reagents and tissues employed. **This antibody best stains when formalin fixed paraffin embedded sections are retrieved.**

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*The above dilutions and incubation times were derived by the use of Innovex STAT-Q and HISTO-STAT staining systems. For less sensitive staining 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 EGFR antigen 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 of human or animal tissues for the purpose of qualitative localization of EGFR antigens in human or mouse tissues. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

## **SPECIES REACTIVITY**

This antibody is reactive with human and mouse tissues. 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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