



**Monoclonal Antibodies to  
CYTOKERATIN 34 $\beta$ E12  
(High molecular weight Cytokeratin)**

**Reagent Category**

Monoclonal primary antibody to  
Cytokeratin high MW (34 $\beta$ E12)

**Antibody Formats Supplied**

□ 5 ml of anti Cytokeratin 34 $\beta$ E12, Ready-To-Us

PRODUCT# IMI21552E (Ready-To-Use)

**SOURCE:** Mouse ascites fluid

**IMMUNOGEN:** Purified human keratins

**IMMUNOGLOBULIN ISOTYPE:** IgG1

**CLONE:** 34 $\beta$ E12

**REACTIVITY**

High molecular weight 34 $\beta$ E12 monoclonal cytokeratin antibody is specific for four high molecular weight cytokeratins, mainly cytokeratins 1 (68 kD), 5 (58 kD), 10 (56.5kD) and 14 (50kD) that are principally found in "complex" epithelium. **34 $\beta$ E12** monoclonal antibody reacts with all squamous cell and ductal epithelium and it is reactive with such carcinomas as squamous cell carcinoma, ductal origin carcinomas of breast and pancreas and benign and small lesions of prostate and prostate carcinoma, this antibody has shown to be useful in as an adjunct in studying and defining prostate carcinoma. This antibody does not react with such hyperplasia as melanoma, sarcoma or lymphoma. It is suitable for use on routinely fixed paraffin embedded or frozen sections.

**POSITIVE CONTROL TISSUE:** Prostate carcinomas

**STAINING PATTERN:** Cytoplasmic

**Antibody FORMAT, DILUTION and INCUBATION**

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

□ **5 ml Ready-to-Use; Do not dilute. Incubate for 1-hour for human tissues. For animal tissues stain 2 hours to over-night.** This antibody requires retrieval; This antibody best stains when formalin fixed paraffin embedded tissue sections are retrieved.

*For Background-Free retrieval, Innovex Uni-Trieve (60°C-70°C) universal retrieval solution is highly recommended. To retrieve with Uni-Trieve: warm up a water bath or an oven to 60°C and fill a slide holding container with solution. Place slides in a slide rack or in a coplin jar, fill the jar with Uni-Trieve, bring the solution containing slides to 60°C-70°C and hold slides in warm 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. For less sensitive detection systems these dilution factors may vary and they should be determined by the end user for specific detection system employed.*

**CONTINUED OVER**



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## **APPLICATIONS**

This antibody is intended for use in immunolocalization of high molecular weight cytokeratin 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 high molecular weight cytokeratin proteins. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

## **SPECIES REACTIVITY**

This antibody reactivity with human, mouse and rat 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 PROFESSIONAL AND RESEARCH USE ONLY***