



## Monoclonal Antibodies to **Cytokeratin 8** (Low molecular weight Cytokeratin)

### Reagent Category

Monoclonal primary antibody to  
Cytokeratin 8

### Antibody Formats Supplied

- 5 ml of anti Cytokeratin 8, Ready-To-Use
- 0.2 ml of anti Cytokeratin 8, Concentrate

PRODUCT# IMI21461E (Ready-To-Use)

PRODUCT# IMI21452E (Concentrate)

**SOURCE:** Cultured supernatant

**IMMUNOGEN:** Purified Cytokeratin 8

**IMMUNOGLOBULIN ISOTYPE:** IgG1

**CLONE:** TS1

### **REACTIVITY**

This monoclonal cytokeratin 8 antibody is specific for low molecular weight cytokeratin 8. This 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, Cytokeratin 8 is present in all adenocarcinomas. 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. This antibody is compatible with formalin fixative as well as most commonly used histological fixatives.

**POSITIVE CONTROL TISSUE:** adenocarcinomas/ prostate carcinoma

**STAINING PATTERN:** Membrane staining

### **Antibody FORMAT, DILUTION and INCUBATION**

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

**5ml of Ready-to-Use; Do not dilute. Incubate for 30 minutes to 1-hour incubation with enzyme digestion or with heat retrieval pre-treatment step.**

**0.5 ml of Concentrate, for paraffin section staining: Dilute 1:50 for 30-minute to 1 hour incubation. The dilution factors are considerably higher for 1 hour to over-night incubation.**

The dilution factor for frozen section staining and other applications are also considerably higher and must be determined by the end user for the application and the secondary staining reagents employed.

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THE SUGGESTED STARTING DILUTION FACTORS ARE MERE GUIDELINES ONLY. OPTIMAL DILUTION FACTORS MUST BE DETERMINED BY THE END USER FOR THE SECONDARY STAINING REAGENTS, SPECIMEN, STAINING PROTOCOL AND APPLICATION EMPLOYED.

*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.*

## **SPECIAL USAGE GUIDANCE**

No pre-treatment such as enzyme (trypsin) pre-digestion is necessary when employing Innovex STAT-Q detection system and signal Enhancing wash buffer in place of PBS or Tris buffer for rinsing in between incubation steps (Item#: IMI00396E for Immuno-Peroxidase staining and Item#: IMI00596E for Immuno-Alkaline-phosphatase). The use of Innovex Enhancing wash buffer greatly enhances staining signals even on antigenically weak tissues and for overfixed tissues. Furthermore, the use of Innovex Enhancing Wash Buffer as the assay wash buffer allows the user to cut primary incubation time and/or increase antibody dilution and eliminates the need for enzyme pre-digestion. When rinsing with PBS, trypsin digestion of paraffin sections is highly recommended.

## **APPLICATIONS**

This antibody is intended for use in immunolocalization of cytokeratin 8 in human tissue or animal tissue 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 for the purpose of qualitative localization of cytokeratin 8 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 2-8°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***