



Monoclonal Antibody to Carcinoembryonic Antigen (CEA)

Technical Data Sheet

Reagent Category

Monoclonal primary antibody to CEA

Specific Reagents Supplied

- 7 ml of anti CEA Ready-To-Use
- 0.2 ml of anti CEA concentrate

PRODUCT# IMI17861E (Ready-To-Use)

PRODUCT# IMI17852E (Concentrate)

SOURCE: Mouse

CLONE: Col-1

INTRODUCTION

Carcinoembryonic antigen (CEA) was first detected on oncofetal tissues, CEA is a glycoprotein of high molecular weight (180KD) and it is heavily glycosylated. This glycoprotein is synthesized during fetal intestinal development and it is re-expressed in increased concentration in intestinal carcinomas and other tumors.

REACTIVITY:

The CEA antibody reacts with specific regions on carcinoembryonic antigen and it is specifically reactive with colorectal adenocarcinomas. This CEA antibody does not cross-react with erythrocytes, polymorphonuclear neutrophils or liver components such as hepatocytes, Kupffer cells or bile duct epithelium. This antibody stains positively for carcinoembryonic antigens in both normal or tumor cells. This antibody can be used for staining formalin fixed, paraffin embedded or frozen tissue sections and it is applicable with most commonly used histological fixatives.

POSITIVE CONTROL TISSUE: Adenocarcinoma, Colon

Antibody FORMAT, DILUTIONS and INCUBATIONS

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

7 ml Ready-to-Use, Do Not Dilute. Incubate for 10 –20 minutes. 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 a 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; For 30 minute incubation, dilute 1:50-1:60, the provided dilution range are mere guidelines, the incubation time and the working titer must be determined by the end user for the tissue and the secondary staining reagents 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 staining system and staining procedure employed.

APPLICATIONS:

This antibody is intended for use in staining carcinoembryonic antigen (CEA) in routinely fixed paraffin embedded or frozen histological sections for the purpose of qualitative localization of CEA antigens. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

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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