

# Anti- human CEA Mouse Monoclonal Primary Antibody

Clone: 1C2

**IVD**

**REF** CE00066

## CATALOG NUMBER

C0066MA01-MA 0.1 mL  
C0066MA05-MA 0.5 mL  
C0066MA10-MA 1.0 mL

## ENGLISH

### Intended use

Anti- human CEA (Clone: 1C2) Mouse Monoclonal Primary Antibody is intended for detection of CEA protein expression in frozen or formalin fixed human tissues and cells. The clinical interpretation of any positive staining or its absence should be complemented by morphological and histological studies with proper controls. Evaluations should be made within the context of the patient's clinical history and other diagnostic tests by a qualified pathologist. The antibody is intended for *in vitro* diagnostic (IVD) use.

### Background

Members of the CEACAM subfamily, including CEACAM5, belong to the CEA gene family. For general information on the CEA gene family, see CEACAM1 (MIM 109770).[supplied by OMIM, Oct 2009].

Alternative names: CD66e; CEA

### Reagent provided

Anti-human CEA Mouse Monoclonal Primary Antibody (Clone: 1C2) is provided in liquid form in 20mM Sodium phosphate, 150mM Sodium chloride, 0.2% BSA, 0.09% Sodium azide, pH 7.4. The isotype of the antibody is IgG2b,k. The protein concentration is approximately 0.01 mg/mL.

For immunohistochemistry, the primary antibody may be used at a working dilution of 1:100 – 1:200 for formalin-fixed, paraffin-embedded human tissue. It can be dependent upon the detection system used. These are guidelines only, and optimal dilutions should be determined by the individual laboratory.

### Immunogen

Human recombinant protein fragment corresponding to amino acids 35-680 of human CEACAM5 (NP\_004354) produced in SF9 cell.

## Specificity

The specificity of the anti- human CEA Mouse Monoclonal Primary Antibody was established on known positive human colon cancer. The anti-human CEA presented no staining on human N1 heart tissue and positive staining on human colon cancer using immunohistochemical (IHC) test methods.

## Materials Required but Not Supplied

Antibody diluent, Antibody detection kits, Chromogen, Staining reagents, negative and positive tissue control slides are not included.

## Precautions

1. For use by trained professionals only.
2. This product contains sodium azide ( $\text{NaN}_3$ ), a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous,  $\text{NaN}_3$  may react with lead and copper plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent metal azide build-up in plumbing.
3. Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.
4. Unused reagents should be disposed of according to local, State, and Federal regulations.

## Storage

Store at 2-8°C. Do not use the product past the expiration date indicated on the label. If reagents are stored under any other conditions, the end user must verify the acceptability of those conditions. There are no obvious signs to indicate instability of this product therefore, positive and negative controls should be run simultaneously with patient specimens.

## Specimen Preparation

### Paraffin Sections

Anti- human CEA Mouse Monoclonal Primary Antibody can be used on formalin-fixed, paraffin-embedded tissue sections at a working dilution of 1:100 to 1:200. No pre-treatment of tissue is required for optimal staining of Anti- human CEA (Clone 1C2) at the recommended dilution. Optimal staining of anti-CEA antibody at a dilution of 1:200 was positive on human colon cancer. The dilutions are estimates; the actual staining results may vary due to reagents and detection protocols used. Validation of antibody performance and final protocol are the responsibility of the end user.

## Staining procedure

### Manual Staining Procedure

1. Deparaffinize slides.
2. Rinse with distilled water, wash with PBS-T 3 times, 2 minutes each.
3. Apply serum blocking solution.[Optional]
4. Apply primary antibody and incubate for 30-60 minutes at room temperature. After incubation wash with PBS-T 3 times, 2 minutes each.
5. Apply secondary antibody and incubate according to the data sheet of the detection system. Wash with PBS-T 3 times, 2 minutes each.
6. Apply enzyme conjugate and incubate according to data sheet of detection system. Wash with PBS-T 3 times, 2 minutes each.
7. Apply chromogen and incubate 5-10 minutes and rinse with distilled water.

## Staining interpretation

The cellular staining pattern for Anti- human CEA Mouse Monoclonal Primary Antibody is cellular and cytoplasmic.

## Performance Characteristics

### Predicted Staining in Normal Tissue/Cells

Human N1 heart tissue was shown to be negative for this antibody.

### Predictive Staining in Tumor

Anti- human CEA Mouse Monoclonal (Clone: 1C2) produced cellular and cytoplasmic staining when screened on human colon.

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