



Mouse Anti-Human CEA Monoclonal Antibody Datasheet

Product Name: mAb anti-human CEA

Clone No.: CEA-Y1

Catalogue No.: MO-T40051B

Quantity: 0.5 mg/vial

Description: Mouse monoclonal antibody to human carcinoembryonic antigen (CEA)

Purification: Protein G affinity purified

Product Type: Primary antibody- **capture** antibody in matched antibody pair.

Target Protein: Human CEA

Immunogen: Human carcinoembryonic antigen (CEA)

Fusion Myeloma: Sp2/O-Ag14

Specificity: This antibody reacts with human CEA. Cross-reactivity with other human proteins was not found.

Species Reactivity: Human, others not tested

Host / Isotype: Mouse, IgG1 Kappa

Formulation: Lyophilized in 0.01M PBS, pH 7.0

Reconstitution Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.

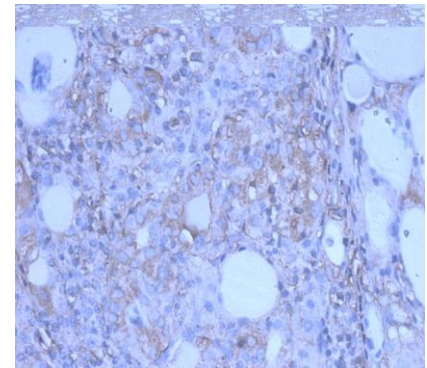
Storage: Store at -20°C

Background: Carcinoembryonic Antigen (CEA) is a 180-200 KD glycoprotein expressed at high level in the epithelial cells of the embryonic colon. The expression is stopped after birth. CEA serum content is low in normal population and only slightly elevated in heavy smokers. Increased serum CEA level was found to associate with colorectal carcinoma, gastric carcinoma, pancreatic carcinoma, lung carcinoma, and breast carcinoma. However elevated CEA level does not necessarily

indicate neoplastic conditions. CEA level is useful for monitoring tumour recurrence after surgical resection of carcinoma.

Applications:

- 1. ELISA:** In combination with matched detection antibody CEA-Y2 (MO-T40051A), this antibody can be used as capture antibody in sandwich ELISA for quantitative detection of CEA.
- 2. Western Blot:** 25ng/lane of antigen can be detected when the antibody was used at 100ng/ml.
- 3. IHC:** This antibody reacts with breast cancer tissue section. The section was treated by heat-induced epitope retrieval before primary antibody (20µg/mL) was added. The secondary antibody was an HRP-labelled goat anti-mouse IgG antibody.



(Breast cancer tissue section)

References:

If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

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