



PRODUCT DATA SHEET

Product: Anti-CEA mAb, clone COL-1

Cat. No.: MC-419 (1 mL)

Synonym:

CD66e

Background:

Clone COL-1 has a high affinity to carcinoembryonic antigen (CEA) and shows no detectable reactivity to biliary glycoprotein (BPG), nonspecific cross-reacting antigen (NCA) or human polymorphonuclear leucocytes. This antibody to CEA is useful in detecting early foci of gastric carcinoma and in distinguishing pulmonary adenocarcinomas (60-70% are CEA+) from pleural mesotheliomas (rarely or weakly CEA+). CEA is not found in benign glands, stroma or malignant prostatic cells. This antibody shows no reaction with a variety of normal tissues.

Species Reactivity:

Human. Does not react with rat. Other species not tested.

Ig Isotype:

Mouse IgG_{2a/k}

Immunogen:

Human colon carcinoma extract

Molecular Weight of Antigen:

180 kDa

Positive Control:

LS174T cells, colon carcinoma

Cellular Localization:

Cytoplasmic and luminal membrane

Format:

1 mL of 200 µg/mL of monoclonal antibody purified from the ascites fluid by Protein A chromatography. Prepared in 10 mM PBS, pH 7.4, with protein stabilizer and 0.09% sodium azide.

Storage:

Store at 4°C.

Applications and Suggested Dilutions:

- Immunofluorescence
- Immunoprecipitation: Native and denatured. Use antibody at 2 µg/mg protein lysate in conjunction with Protein A.
- Western blot: Use antibody at 1-2 µg/mL for 2 hours at room temperature.
- Immunohistochemistry: Formalin/paraffin, use at a 1:1,000 dilution for 30 minutes at room temperature. Staining of formalin-fixed tissue REQUIRES boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling for 20 minutes at room temperature.

The optimal dilution for a specific application should be determined by the researcher.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.