

Product datasheet for **BM4065**

CEACAM5 Mouse Monoclonal Antibody [Clone ID: C19]

Product data:

Product Type:	Primary Antibodies
Clone Name:	C19
Applications:	IHC
Recommended Dilution:	Suitable for Immunohistochemistry on paraffin embedded sections (0.1 µg/ml, 1/4000). Microwave pretreatment for antigen retrieval is recommended. Suggested positive control: Human colon carcinoma.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	C19 is useful to detect CEA in malignant adenocarcinoma, notably in the gastro-intestinal tract. Clinical relevance is also found in breast-, lung-, prostatic-, ovarian- and other carcinomas of endodermal origin (stomach, liver, pancreas). Contrary to some other antibodies, C19 stains granulocytes in blood smears and tonsils, as well as epithelial cells.
Formulation:	PBS, pH 7.2 with 10 mg/ml bovine serum albumin (BSA) as a stabilizer and 0.01% thimerosal as a preservative. State: Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore with 0.5 ml distilled water.
Concentration:	0.4 mg/ml
Purification:	Affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody at 2-8°C for one month or (in aliquots) at -20°C for longer. Do not freeze working dilutions Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	carcinoembryonic antigen related cell adhesion molecule 5



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Database Link: [Entrez Gene 1048 Human P06731](#)

Background: CEA is a glycoprotein of 180kDa m.w. It is a normal constituent of the glycocalix of embryonic endodermal epithelium and is produced mainly in the mucosa of the normal colon.

Synonyms: CEA, Carcinoembryonic antigen

Note: Protocol: **Protocol with formalin-fixed, paraffin-embedded sections:**
The whole procedure is performed at room temperature

1. Deparaffinize and rehydrate tissue section
2. Place slide in a cuvette with 250ml 0.01M citrate buffer, pH 6.0
3. Heat slide in a microwave oven for 2 x 7min. at 700 Watt
4. Leave slide in the buffer for 20min for cooling
5. Wash in distilled water
6. Block endogenous peroxidase
7. Wash in PBS
8. Block with 10% normal goat serum in PBS for 30min. in a humid chamber
9. Incubate with primary antibody (dilution see datasheet) for 1h in a humid chamber
10. Wash in PBS
11. Incubate with secondary antibody (peroxidase-conjugated goat anti mouse IgG+IgM (H+L) minimal-cross reaction to human) for 1h in a humid chamber
12. Wash in PBS
13. Incubate with AEC substrate (3-amino-9-ethylcarbazol) for 12min.
14. Wash in PBS
15. Counterstain with Mayer's hemalum.