



## CEA (carinoembryonic antigen)

**CATALOG NUMBER:** MUB0332S

**SPECIES:** mouse monoclonal antibody

**CLONE:** Parlam 4

**ISOTYPE:** IgG1

**PRODUCT FORM:** culture supernatant of monoclonal antibody

### BACKGROUND - APPLICATION

This monoclonal antibody is reactive with human carinoembryonic antigen (CEA), a tumour associated antigen with oncofetal characteristics. CEA can be found in a large variety of carcinomas, but also in the tissue of non-neoplastic diseases and normal epithelia.

Despite this lack of specificity, immunohistochemical detection of CEA is frequently used for the histopathological diagnosis of human tumours. Most polyclonal, non-purified, CEA antisera show cross reactivity with related antigens such as biliary glycoprotein (BGP) and non-specific cross-reacting antigen 1/11 (NCA). The monoclonal CEA antibody does not show cross reactivity neither with BGP nor with NCA.

Immunoblotting: antibody directed against a single band of 180 kD.

### SOURCE

Parlam 4 is a mouse monoclonal IgG1 antibody derived by fusion of *Sp 2/0* mouse myeloma cells with spleen cells from a BALB/c mouse immunized with isolated human CEA. The immunogen has been isolated from human colon carcinoma cells.

### PRODUCT

Each vial contains 1.0 ml culture supernatant.

### SPECIFICITY

Parlam 4 is useful for flow cytometry, immunoblotting, immunocytochemistry on fixed cells (methanol fixation) and immunohistochemistry on frozen tissues when using a PBS buffer containing 0.1 mM CaCl<sub>2</sub> and 0.1 mM MgCl<sub>2</sub>. Optimal antibody dilution should be determined by titration; 1:5 – 1:10 for immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and 1:100 – 1:1000 for immunoblotting application.

### SPECIES REACTIVITY

Human.

### STORAGE

Store at 4°C, or in small aliquots for prolonged storage at –20°C.

### REFERENCES

Verstijnen C.P.H.J., et al. (1986). CEA-specificity of CEA-reactive monoclonal antibodies. *Immunochemical and immunocytochemical studies. Anticancer Research*, 6, 97-104.

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### WARNING and CAUTION

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals.

This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water.

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