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Mouse anti Carcinoembryonic Antigen / CEA

Catalogue number: **MUB0332P**

Clone	PARLAM 4
Isotype	IgG1
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse
Species reactivity	Human
Application	Flow cytometry Immunoblotting Immunocytochemistry Immunohistochemistry (frozen) Immunohistochemistry (paraffin)

Distributors

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Background

This monoclonal antibody is reactive with Human carcinoembryonic antigen (CEA), a tumour associated antigen with oncofetal characteristics. Although CEA can be found in tissues of non-neoplastic diseases and normal epithelia, it occurs also in a large variety of carcinomas. Therefore, immunohistochemical detection of CEA is frequently used for the histopathological diagnosis of Human tumours.

Source

PARLAM 4 is a Mouse monoclonal IgG1 antibody derived by fusion of Sp 2/0 Ag 14 Mouse myeloma cells with spleen cells from a BABL/c Mouse immunized with isolated Human CEA. The immunogen has been isolated from Human colonic carcinoma cells.

Product

Each vial contains 100 ul 1 mg/ml purified antibody in PBS containing 0.09% sodium azide.

Applications

PARLAM 4 is useful for flow cytometry, immunoblotting, immunocytochemistry on methanol fixed cells and immunohistochemistry on frozen tissues when using a PBS buffer containing 0.1 mM CaCl₂ and 0.1 mM MgCl₂. The antibody is also reactive in formalin-fixed and paraffin-embedded tissue sections after treatment with citRate buffer pH 6.0 in an autoclave. Human colon carcinoma tissue is used as positive control. Optimal

antibody dilution should be determined by titration; we recommend a 1:25 – 1:100 dilution for immunohistochemistry with avidin-biotinylated Horseradish peroxidase complex (ABC) as detection reagent, and 1:100 – 1:500 for immunoblotting application.

Specificity

Most polyclonal CEA antisera show cross-reactivity with related antigens such as biliary glycoprotein (BGP) and non-specific cross-reacting antigen 1/11 (NCA). PARLAM 4 does not show cross reactivity, neither with BGP nor with NCA. In immunoblotting the antibody recognizes a single band of 180 kD.

Storage

Store at 4°C, or in small aliquots at -20°C.

References

1. Verstijnen CP, Arends JW, Moerkerk PT, Warnaar S, Hilgers J, Bosman FT (1986). CEA-specificity of CEA-reactive monoclonal antibodies. Immuno-chemical and immunocytochemical studies. *Anticancer Research*, 6, 97-104.
2. Henzen-Logmans SC, Schipper NW, Poels LG, Stolk K, Kenemans P, Meyer CJ. (1988) Use of statistical evaluation of antigen profiles in differential diagnosis between colonic and ovarian adenocarcinomas. *J.Clin Pathol.* 41:644-9.
3. Taal BG, Hageman PC, Delemarre JF, Bonfrère JM, den Hartog Jager FC. (1992) Metastatic ovarian or colonic cancer: a clinical challenge. *Eur J Cancer* . 28: 394-9.

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. This datasheet is as accurate as reasonably achievable, but Nordic-MUBio accepts no liability for any inaccuracies or omissions in this information.