



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Mouse Anti Cancer Antigen CA15-3 (Breast Cancer)

Catalog No.
MD-16-0010

Source
Cell Culture

Description

MAB to Cancer Antigen CA15-3
Monoclonal Antibody to Cancer Antigen CA15-3 (Breast Cancer)

Specificity

MD-16-0010 recognizes a sialylated carbohydrate epitope of the MUC-1 glycoprotein. Is sensitive to periodate and sialidase treatment, but it does not react with glycolipid extract from the ZR 75-1 cell line. The MUC-1 mucin (Cancer Antigen 15-3) is secreted from tumor cells. The apo-protein of the MUC-1 mucin contains a transmembrane domain, a cytoplasmic domain, and an extracellular carbohydrate rich domain. The extracellular domain is characterized by polymorphism with respect to the number of a 20 amino acid tandem repeat (VNTR polymorphism).

Preparation

Purification: Protein A chromatography
Host Animal: Mouse Hybridization of P3X63-Ag8.653 myeloma cells with spleen cells from BALB/c mice.
Isotype: IgG₁
Immunogen: Human breast cancer cell line ZR 75-1
Concentration: 2.5mg/ml (OD280nm, E^{0.1%} = 1.35)
Affinity Constant: Not determined
Buffer: 0.15M Sodium chloride
Preservative: None

Applications

Capture or detection antibody in serological assays for the research of antigen MUC-1. Immunohistochemistry on frozen or paraffin sections for the detection of MUC-1. Immunochemical detection of MUC-1 protein. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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QC Information: IgG >99% of total peak area (Superdex 200 gel chromatography on ÄktaFPLC)

Storage: Short-term (up to 2 months) store at <-20°C. Long term (>2 months) store at <-40°C. Avoid multiple freeze/thaw cycles.

References: The references listed below are for research purposes only.

1. Hilkens J., et al., (1984), Int J. Cancer **34**, 197.
2. Bäckstrom D., et al., (1993), "Discrimination of MUC1 mucins from other Sialyl-Lea-carrying glyco-proteins by colon carcinoma cells using a novel monoclonal antibody", Cancer Res., **53**, 755.
3. Nilsson O., et al., (1994), "Development of assays for determination of MUC-1 breast cancer antigen", 7th Symposium on Tumors Markers, Hamburg 1993, R Klapdor (ed) Current Tumor Diagnostics: Applications, Clinical Relevance, Research, Trends. W. Zuckerwerdt Verlag Munchen.
4. Nilsson O., et al., (1994), "A. Novel Mab for determination of breast cancer associated MUC-1 mucin antigen". XXII International Society for Oncodevelopment Biology and Medicine, Groningen.
5. Perey L. et al., (1992), "Tumor Selective Reactivity of a Monoclonal Antibody Prepared against a Recombinant Peptide Derived from the DF3 Human Breast Carcinoma-associated Antigen", Cancer Research, **52**, 2563–2568. May 1.

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