

Product Specification Sheet

Human Cancer Associated Antigen (CA-15-3, CA153, CAA-B)

Cat. #	CA1531-M
Description	Mouse Monoclonal Anti-Human CA153 IgG # 1
Host Animal/isotype	Mouse, IgG1k
Form & Antibody concentration	Protein A/G affinity purified from ascites fluid supplied in PBS, pH 7.4, 1 mg/ml or see lot sp. conc on the vial
Storage & Stability	Short term at 2-8oC; Long term at -20oC. Stability: ~1 year or more at -20oC; Avoid repeated freeze and thaw.
Specificity and crossreactivity	Specific for the tandem repeat of the MUC-1 core. Recognizes the hexapeptide (TRPAPG). The MUC-1 mucin (Cancer Antigen CA15-3) 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).
Suggested Usage	Capture or detection antibody in serological assays for the research of antigen MUC-1. This antibody forms a suitable pair with Catalog #CA1532-M. 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
MSDS Info	Contains no preservative. Sodium azide or other preservative, if added, will be specified on the datasheet or the vial.

General Information

The MBC antigen is a membrane anchored mucin type glycoprotein present in a variety of adenocarcinomas including breast, colon, ovary, lung and pancreas, and normal epithelial cells of different organs. The mucin (MBC) is secreted from tumor cells and can be used as serological marker of breast cancer. Several commercial breast cancer assays measuring the MBC breast antigen are available under different brand name, e.g. CA 15-3. Before the introduction of CA 15-3, carcinoembryonic antigen (CEA) was commonly used to monitor breast cancer patients. The CA 15-3 or mucin breast cancer assay is a more sensitive and specific marker in breast cancer than CEA.

Mucin breast cancer marker correlates with disease progression, regression, or stability in higher number of patients than CEA. The mucin breast cancer assay may have two clinical applications: (i) to identify patients most likely to develop metastatic disease and (ii) to monitor therapy and tumor recurrence.

Related items

Catalog#	ProdDescription
1820	Human Ovarian Cancer (CA125) ELISA Kit, 96 tests, Quantitative
1830	Human Ovarian Cancer (CA153) ELISA Kit, 96 tests, Quantitative
1840	Human Pancreatic & GI Cancer (CA199) ELISA Kit, 96 tests, Quantitative
0060	Human Pancreatic Colorectal cancer (CA-242) ELISA Kit, 96 tests, Quantitative
0400	Human Chorionic Gonadotropin (HCG) ELISA Kit, 96 tests, Quantitative
0410	Human Chorionic Gonadotropin (HCG-free beta) ELISA Kit, 96 tests, Quantitative
0500	Human Alpha Fetoprotein (AFP) ELISA Kit, 96 tests, Quantitative
0800	Human Carcinoembryonic Antigen (CEA) ELISA Kit, 96 tests, Quantitative

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