

Datasheet for ABIN7487742

Recombinant anti-MUC1 antibody



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Overview

Quantity:	200 µg
Target:	MUC1
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Chimeric
Conjugate:	This MUC1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunoprecipitation (IP), Radioimmunoassay (RIA)

Product Details

Purpose:	Anti-MUC1 [HMFG1 (1.10.F3)], Rabbit IgG, kappa
Immunogen:	The original antibody was generated by immunizing mice with human mammary milk fat globule.
Clone:	HMFG1
Isotype:	IgG kappa
Specificity:	This antibody binds the MUC1, a tumor associated antigen expressed on many breast cancer cells. This antibody does not show reactivity towards fibroblasts, lymphoblastoid cells, and a large number of epithelial cell lines of non-breast origin. This antibody recognizes the 'PDTR' epitope of mucin.
Characteristics:	Original Species of Ab: Mouse

Product Details

Original Format of Ab: IgG1

Purification: Protein A affinity purified

Target Details

Target: MUC1

Alternative Name: MUC1 ([MUC1 Products](#))

Background: CD227, Muc-1, Mucin-1, Milk mucin, human milk fat globule antigen, Breast carcinoma-associated antigen DF3, Cancer antigen 15-3, Carcinoma-associated mucin, Episialin, H23AG, Krebs von den Lungen-6, KL-6, PEMT, Peanut-reactive urinary mucin, Polymorphic epithelial mucin, PEM, Tumor-associated epithelial membrane antigen, EMA

UniProt: [P15941](#)

Pathways: [Negative Regulation of intrinsic apoptotic Signaling](#)

Application Details

Application Notes: This antibody reacts with most of the breast cancer cells lines and with epithelial cells of human milk. The antibody also reacts with neoplasms of epithelial origin, particularly carcinomas of breast, ovary, cervix, bronchus and gastrointestinal tract. This antibody was used for the study of expression of epithelial antigen in normal and disordered cervical squamous epithelium using immunohistological methods (PMID: 6315048). This antibody can recognize the epithelial membrane antigen in a radioimmunoassay. Immunofluorescent staining of cultures of human breast cells with these antibodies demonstrated that they are heterogeneous in their distribution (PMID: 6086018). HMFG1 and HMFG2 recognize different epitopes of the milk fat globule (PMID: 6086018, 2424847). This antibody was used for the study of tumor associated antigenic epitopes purified from human skimmed milk using immunoaffinity chromatography, immunoprecipitation and immunoblot techniques (PMID: 2443241). The reshaped humanized antibody, HuHMFGI, showed no difference in relative affinity for its antigen compared with the parent mouse HMFG1 (PMID: 7682986). This mAb reacts with P1-24 synthetic peptide (PDTRPAGSTAPPAHGVTSAPDTR) representing the repeating amino acid sequence of the mucin core protein and also reacted strongly with ovarian carcinoma-associated sebaceous gland antigen (SGA) by direct binding and in a sandwich ELISA assay with OM-1 as the capture Mab (PMID: 1697426).

Comment: This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Application Details

Restrictions:	For Research Use only
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Handling

Concentration:	1 mg/mL
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Buffer:	PBS with 0.02 % Proclin 300.
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Preservative:	ProClin
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Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	4 °C,-20 °C
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Storage Comment:	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.
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