## Mucin 1 / EMA / Episialin / CD227 Monoclonal Mouse Antibody (HMPV)



## **Product Description**

This MAb recognizes full-length MUC1 in a glycosylation-independent manner and can bind to the fully glycosylated protein. The dominant epitope of this MAb is APDTR in the extracellular VNTR region. It reacts with the core peptide of the MUC1 protein, which is a member of a family of mucin glycoproteins that are characterized by high carbohydrate content, O-linked oligosaccharides, high molecular weight (>200 kDa) and an amino acid composition rich in serine, threonine, proline and glycine. The core protein contains a domain of 20 amino-acid tandem repeats that functions as multiple epitopes for the MAb. Incomplete glycosylation of some tumor-associated mucins may lead to variable unmasking of the multiple peptide epitopes leading to the observed differences in staining intensity between normal and malignant tissues. This MAb reacts with both normal and malignant epithelia of various tissues including breast and colon. Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors. **Stock status**: Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email order@biotium.com to inquire about stock status and lead times before placing your order.

## Product attributes Antibody number #0954 Antibody reactivity (target) Antibody type Primary Host species Mouse Clonality Monoclonal Clone HMPV

Call us: 800-304-5357 Email: btinfo@biotium.com

Isotype

Synonyms

Molecular weight

Shipping condition

265-400 kDa

Breast carcinoma-associated antigen
DF3; CA15-3; Carcinoma-associated
mucin Episalin; Epithelial Membrane
Antigen; H23AG; KL-6; MAM6; MUC-1;
MUC-1/SEC; MUC-1/X; MUC1-alpha;
MUC1-bela; MUC1-CT; MUC1-NT;
MUC1-DE; Mucin 1 cell surface
associated; Mucin-1 subunit beta;
Peanut-reactive urinary mucin; PEM;
PEMT; Polymorphic epithelial mucin;
PUM; Tumor-associated epithelial

 Human gene symbol
 MUC1

 Entrez gene ID
 4582

 SwissProt
 P15941

 Unigene
 89603

 Immunogen
 Human breast cancer cell line ZR-75 cells

membrane antigen

IgG1, kappa

Verified antibody applications

Flow (surface) (verified), IF (verified), IHC (FFPE) (verified), WB (verified)

Antibody target cellular localization Species reactivity

Human

Antibody application notes

Immunohistology formalin-paraffin 0.25-0.5 ug/ml., Staining of formalin-fixed lissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes, Fisw Cytometry 0.5-1 ug/million cells/0.1 mL, Immunofluorescence 1-2 ug/mL, Optimal dilution for a specific application should be determined by user

Positive control MCF-7 or MDA-231 cells. Breast, colon, ovarian, endometrial carcinoma.

Storage Conditions
Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C

Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended

Regulatory status For research use only (RUO)

Antibody/conjugate formulation Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA/0.05% azide, in PBS/0.05% BSA/0.05% azide,

mg/mL in PBS/0.05% BSA/0.05% azide
mg/mL in PBS/0.05% BSA/0.05% azide
Purifled, BSA-free: 1 mg/mL in PBS
without azide

Antibody research areas Cancer, Mucins

Cell/tissue expression Epithelial cells, Mammary gland
Tumor expression Breast cancer

Antibody # prefix	Conjugation	Ex/Em (nm)	Laser line	Detection channel	Dye Features
BNC04	CF®405S	404/431	405	DAPI (microscopy), AF405	CF®405S Features
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified.	N/A	N/A	N/A	

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**BSA-free**