

## Rabbit MUC1/CA15-3/EMA/CD227 Monoclonal Antibody | anti-MUC1 antibody

MUC1/CA15-3/EMA/CD227 (Epithelial Marker)

|                               |                       |                                               |                                             |
|-------------------------------|-----------------------|-----------------------------------------------|---------------------------------------------|
| CATALOG #<br><b>AAA214782</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human. Others not known.</b> | APPLICATIONS<br><b>Immunohistochemistry</b> |
|-------------------------------|-----------------------|-----------------------------------------------|---------------------------------------------|

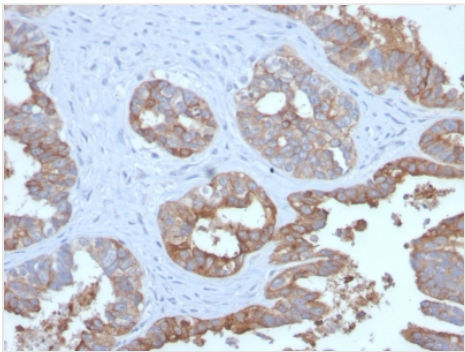
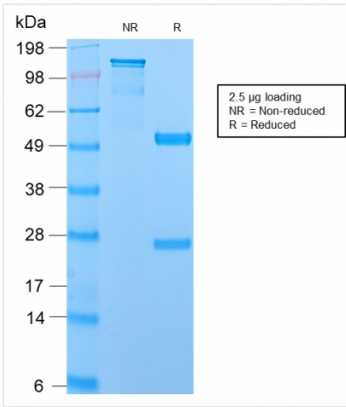
### PRODUCT SYNONYMS

MUC1/CA15-3/EMA/CD227; Monoclonal Antibody; MUC1/CA15-3/EMA/CD227 (Epithelial Marker); Breast carcinoma-associated antigen DF3; CA15-3; Carcinoma-associated mucin Episialin; Epithelial Membrane Antigen; H23AG; KL-6; MAM6; MUC-1; MUC-1/SEC; MUC-1/X; MUC1-alpha; MUC1-beta; MUC1-CT; MUC1-NT; MUC1/ZD; Mucin 1 cell surface associated; Mucin-1 subunit beta; Peanut-reactive urinary mucin; PEM; PEMT; Polymorphic epithelial mucin; PUM; Tumor-associated epithelial membrane antigen; Tumor-associated mucin; anti-MUC1 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Reactivity                                     | Human. Others not known.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Clonality                                      | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Isotype                                        | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Clone Number                                   | MUC1/2729R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Specificity                                    | In Western blotting, it recognizes proteins in MW range of 265-400kDa, identified as different glycoforms of EMA. This MAb reacts with the DTRP epitope in the tandem repeats. The alpha subunit has cell adhesive properties. It can act both as an adhesion and an anti-adhesion protein. EMA may provide a protective layer on epithelial cells against bacterial and enzyme attack. The beta subunit contains a C-terminal domain, which is involved in cell signaling, through phosphorylations and protein-protein interactions. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. Antibody to EMA is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver. |
| Purity/Purification                            | Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Form/Format                                    | 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Sequence Length                                | 1,264                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Applicable Applications for anti-MUC1 antibody | IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Immunogen                                      | Recombinant full-length human MUC1 protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Positive Control                               | MCF-7 or MDA-231 Cells. Breast, Colon, Ovarian, Endometrial Carcinoma.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Cellular Localization                          | Cytoplasmic and Cell Surface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Chromosome Location                            | 1q22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Preparation and Storage                        | Antibody with azide - store at 2 to 8 degree C.<br>Antibody without azide - store at -20 to -80 degree C.<br>Antibody is stable for 24 months. Non-hazardous. No MSDS required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

IMAGES



IHC (Immunohistochemistry)  
Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with MUC1 Recombinant Rabbit Monoclonal Antibody (MUC1/2729R).

SDS-PAGE  
SDS-PAGE Analysis Purified MUC1 Recombinant Rabbit Monoclonal Antibody (MUC1/2729R). Confirmation of Purity and Integrity of Antibody.

ADDITIONAL INFORMATION

|                                                    |                                                                        |
|----------------------------------------------------|------------------------------------------------------------------------|
| Related Product Information for anti-MUC1 antibody | Recombinant Rabbit Monoclonal Antibody                                 |
| References                                         | Stanley CM, Phillips TE. Am J Physiol. 1999 Jul; 277(1 Pt 1):G191-200. |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                               |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 67189007                                                                                                                      |
| NCBI GeneID                      | 4582                                                                                                                          |
| NCBI Accession #                 | NP_001018016.1                                                                                                                |
| NCBI GenBank Nucleotide #        | NM_001018016.2                                                                                                                |
| UniProt Accession #              | P15941; P13931; P15942; P17626; A5YRV1; A6ZID9; A6ZIE0; B1AVQ8; B1AVR0; B6ECA1; E7ESE5; E7EUG9                                |
| Molecular Weight                 | 265-400kDa                                                                                                                    |
| NCBI Official Full Name          | mucin-1 isoform 2                                                                                                             |
| NCBI Official Synonym Full Names | mucin 1, cell surface associated                                                                                              |
| NCBI Official Symbol             | MUC1                                                                                                                          |
| NCBI Official Synonym Symbols    | EMA; MCD; PEM; PUM; KL-6; MAM6; MCKD; PEMT; CD227; H23AG; MCKD1; MUC-1; ADMCKD; ADMCKD1; CA 15-3; MUC-1/X; MUC1/ZD; MUC-1/SEC |
| NCBI Protein Information         | mucin-1                                                                                                                       |
| UniProt Protein Name             | Mucin-1                                                                                                                       |
| UniProt Gene Name                | MUC1                                                                                                                          |
| UniProt Synonym Gene Names       | PUM; MUC-1; CA 15-3; KL-6; PUM; PEM; EMA; MUC1-NT; MUC1-alpha; MUC1-beta                                                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.