

36-2818: Anti-MUC1 / CA15-3 / EMA / CD227 (Epithelial Marker) Monoclonal Antibody(Clone: MUC1/2980R)

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| Clonality : | Monoclonal |
| Clone Name : | MUC1/2980R |
| Application : | WB,IHC |
| Reactivity : | Human |
| Gene : | MUC1 |
| Gene ID : | 4582 |
| Uniprot ID : | P15941 |
| Alternative Name : | 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 |
| Isotype : | Rabbit IgG |
| Immunogen Information : | Recombinant full-length human MUC1 protein |

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 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 (200kDa) 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.

Product Info

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| Amount : | 20 µg / 100 µg |
| Content : | 200 µg/ml of Ab Purified from Bioreactor Concentrate on Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| Storage condition : | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. |

Application Note

Western Blot (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1--2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);

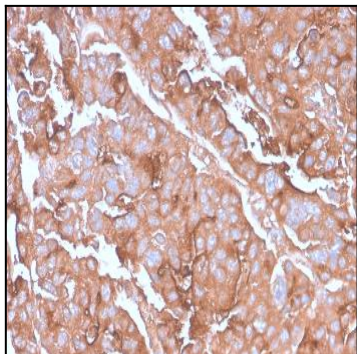


Fig. 1: Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with MUC1 Rabbit Recombinant Monoclonal Antibody (MUC1/2980R).

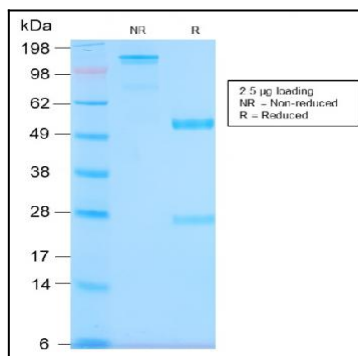


Fig. 2: SDS-PAGE Analysis Purified MUC1 Rabbit Recombinant Monoclonal Antibody (MUC1/2980R). Confirmation of Purity and Integrity of Antibody.