

Product Datasheet

MUC-1 Antibody (orb2638900)

Catalog Number	orb2638900
Category	Antibodies
Description	<p>This mAb recognizes full-length MUC1/Mucin-1/Epithelial Marker Antigen/EMA 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.</p>
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG1, kappa
Conjugation	Unconjugated
Reactivity	Human
Purification	Protein G affinity chromatography
Immunogen	Human breast cancer cell line ZR-75 cells were used as the immunogen for the MUC-1 antibody.
UniProt ID	P15941

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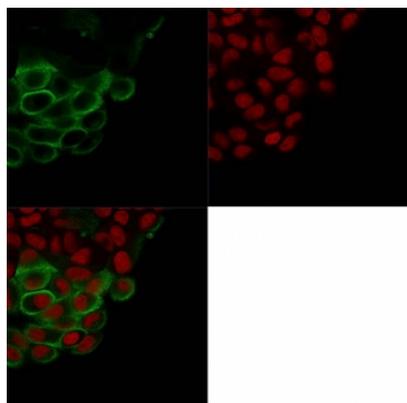
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Tested applications	FACS, IF, IHC-P, WB
Dilution range	Flow cytometry: 1-2ug/million cells, Immunofluorescence: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT, Western blot: 1-2ug/ml
Application notes	Optimal dilution of the MUC-1 antibody should be determined by the researcher. 1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min. 2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.
Antibody Type	Primary Antibody
Clone Number	HMPV
Formula	1 mg/ml in 1X PBS; BSA free, sodium azide free
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only



Immunofluorescent staining of PFA-fixed human K562 cells with MUC-1 antibody (green, clone HMPV) and Reddot nuclear stain (red).

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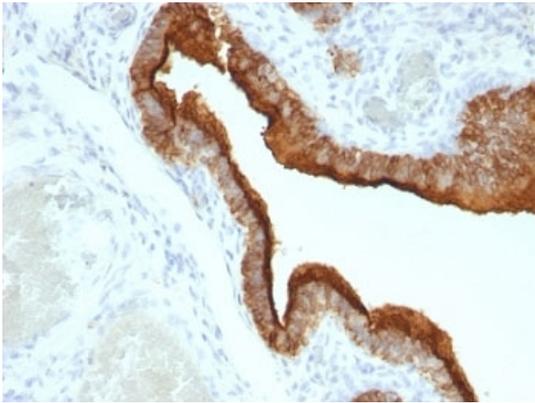
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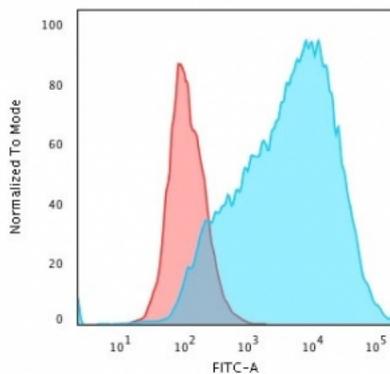
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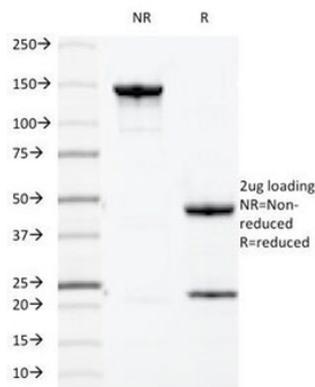
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IHC: Formalin-fixed, paraffin-embedded human ovarian carcinoma stained with MUC-1 antibody (clone HMPV).



Flow cytometry testing of PFA-fixed human MCF7 cells with MUC-1 antibody (clone HMPV; Red = isotype control, Blue = MUC-1 antibody).



SDS-PAGE analysis of purified, BSA-free MUC-1 antibody (clone HMPV) as confirmation of integrity and purity.

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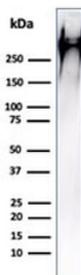
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Western blot testing of human MCF7 cell lysate with MUC1 antibody (clone HMPV). This glycoprotein is commonly visualized between 120~500 kDa.

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