

## Product Datasheet

### MUC1 Antibody / Mucin-1 / EMA (orb2638903)

<b>Catalog Number</b>	orb2638903
<b>Category</b>	Antibodies
<b>Description</b>	<p>In Western blotting, it recognizes proteins in MW range of 265-400 kDa, identified as different glycoforms of MUC1/Mucin-1/Epithelial Marker Antigen/EMA. 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.</p>
<b>Clonality</b>	Monoclonal
<b>Species/Host</b>	Mouse
<b>Isotype</b>	Mouse IgG2a, lambda
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Human
<b>Buffer/Preservatives</b>	1 mg/ml in 1X PBS; rAlbumin free, sodium azide free
<b>Purification</b>	Protein G affinity chromatography
<b>Immunogen</b>	Human milk-fat globule membranes (HMFGM) was used as the immunogen for the MUC1 antibody.
<b>UniProt ID</b>	<b>P15941</b>
<b>Tested applications</b>	IHC-P, WB

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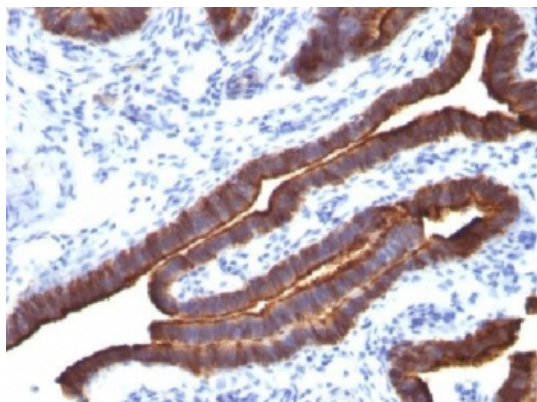
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<b>Dilution range</b>	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT,Western blot: 1-2ug/ml
<b>Application notes</b>	Optimal dilution of the MUC1 antibody should be determined by the researcher.1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 minutes2. 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.
<b>Antibody Type</b>	Primary Antibody
<b>Clone Number</b>	MUC1/520
<b>Storage</b>	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.
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.



Formalin-fixed, paraffin-embedded human ovarian carcinoma stained with EMA antibody (MUC1/520).

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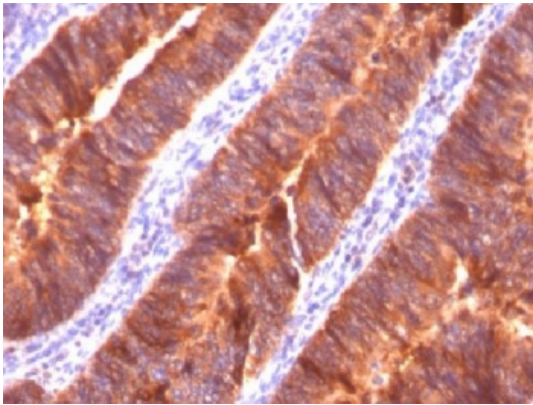
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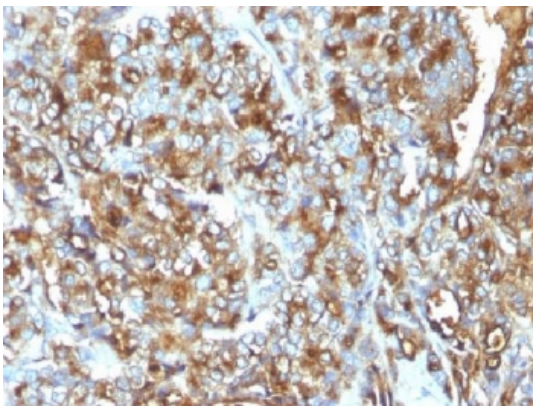
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Formalin-fixed, paraffin-embedded human colon carcinoma stained with MUC1 antibody (MUC1/520).



Formalin-fixed, paraffin-embedded human endometrial carcinoma stained with MUC1 antibody (MUC1/520).



Formalin-fixed, paraffin-embedded human breast carcinoma stained with MUC1 antibody (MUC1/520).

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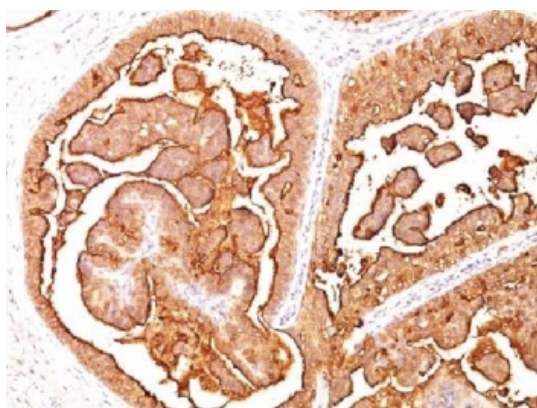
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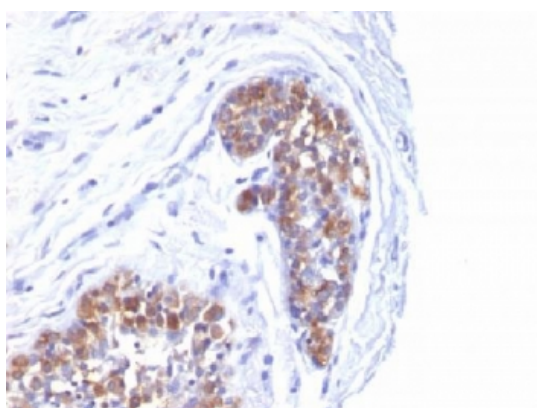
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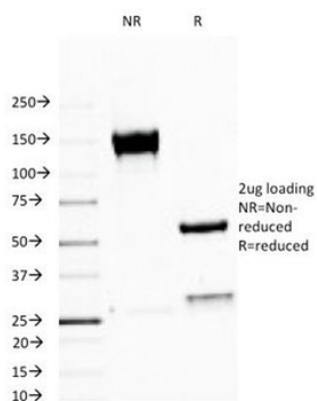
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Formalin-fixed, paraffin-embedded human breast carcinoma stained with MUC1 antibody (MUC1/520).



Formalin-fixed, paraffin-embedded human breast carcinoma stained with MUC1 antibody (MUC1/520).



SDS-PAGE Analysis of Purified, BSA-Free MUC1 Antibody (clone MUC1/520). Confirmation of Integrity and Purity of the Antibody.

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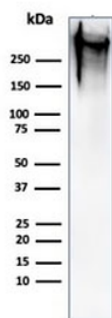
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Western blot testing of human MCF7 cell lysate with MUC1 antibody (clone MUC1/520). This glycoprotein is commonly visualized between 120~500 kDa.

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