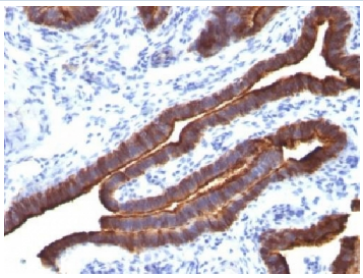
MUC1 Antibody / Mucin-1 / EMA [clone MUC1/520] (V2725)

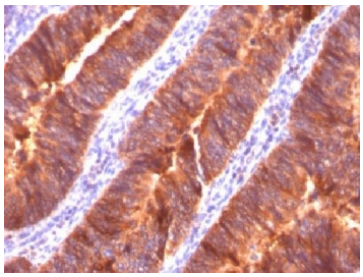
Catalog No.	Formulation	Size
V2725-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2725-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2725SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2725IHC-7ML	Prediluted in 1X PBS, 0.1 mg/ml BSA (US sourced), 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, lambda
Clone Name	MUC1/520
Purity	Protein G affinity chromatography
UniProt	P15941
Localization	Cytoplasmic and cell surface
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT Western blot: 1-2ug/ml
Limitations	This MUC1 antibody is available for research use only.



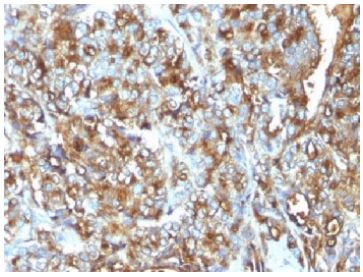
Formalin-fixed, paraffin-embedded human ovarian carcinoma stained with EMA antibody (MUC1/520).



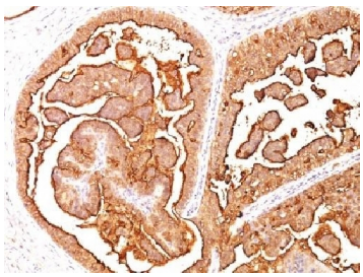
Formalin-fixed, paraffin-embedded human colon carcinoma stained with MUC1 antibody (MUC1/520).



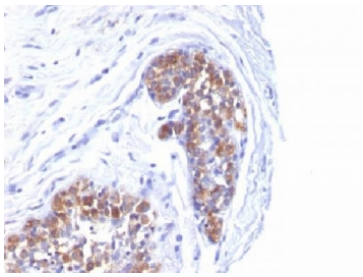
Formalin-fixed, paraffin-embedded human endometrial carcinoma stained with MUC1 antibody (MUC1/520).



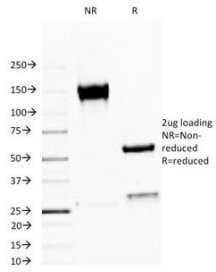
Formalin-fixed, paraffin-embedded human breast carcinoma stained with MUC1 antibody (MUC1/520).



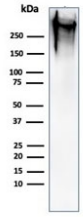
Formalin-fixed, paraffin-embedded human breast carcinoma stained with MUC1 antibody (MUC1/520).



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.



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

Description

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.

Application Notes

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 minutes
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.

Immunogen

Human milk-fat globule membranes (HMFGM) was used as the immunogen for the MUC1 antibody.

Storage

Store the MUC1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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