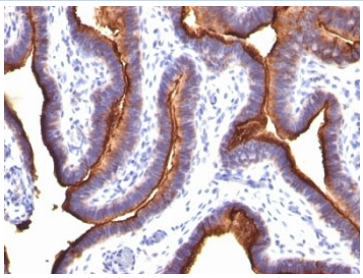
EMA Antibody / MUC1 / Mucin-1 [clone MUC1/845] (V2371)

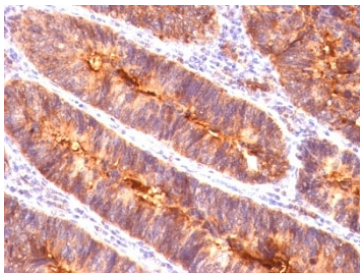
Catalog No.	Formulation	Size
V2371-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2371-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2371SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2371IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

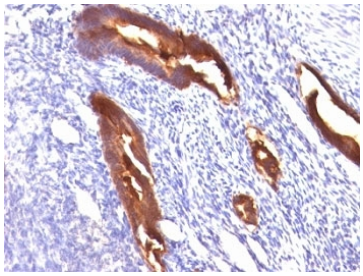
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	MUC1/845
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
Gene ID	4582
Localization	Cytoplasmic and cell surface
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This **EMA antibody** is available for research use only.



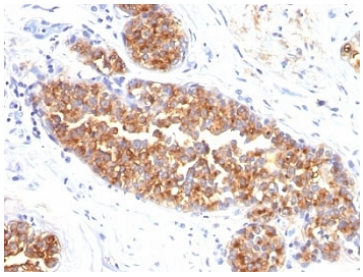
Formalin-fixed, paraffin-embedded human ovarian carcinoma stained with EMA antibody (MUC1/845).



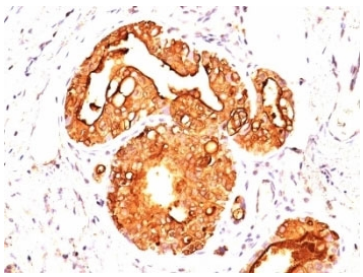
Formalin-fixed, paraffin-embedded human colon carcinoma stained with EMA antibody (MUC1/845).



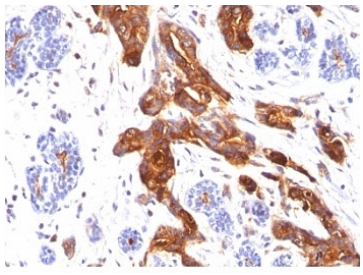
Formalin-fixed, paraffin-embedded human endometrial carcinoma stained with EMA antibody (MUC1/845).



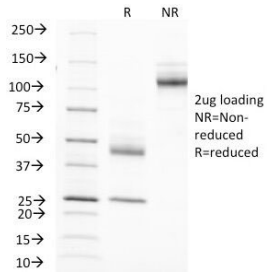
Formalin-fixed, paraffin-embedded human breast carcinoma stained with MUC1 / EMA antibody (MUC1/845).



Formalin-fixed, paraffin-embedded human breast carcinoma stained with EMA antibody (MUC1/845).



Formalin-fixed, paraffin-embedded human breast carcinoma stained with EMA antibody (MUC1/845).



SDS-PAGE Analysis of Purified, BSA-Free EMA Antibody (clone MUC1/845). Confirmation of Integrity and Purity of the Antibody.

Description

This antibody recognizes proteins in MW range of 265-400 kDa, identified as different glycoforms of MUC1 (Mucin-1) or EMA (epithelial membrane antigen). The alpha subunit has cell adhesive properties. It can act both as an adhesion and an anti-adhesion protein. MUC1 / Mucin-1 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, the MUC1 / EMA antibody superbly stains routine formalin/paraffin carcinoma tissues. MUC1 antibody is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the EMA antibody to be titered up or down for optimal performance.

1. HIER: boil sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 10-20 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.

Immunogen

Human milk fat globule membranes were used as the immunogen for this EMA antibody.

Storage

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

References (1)

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