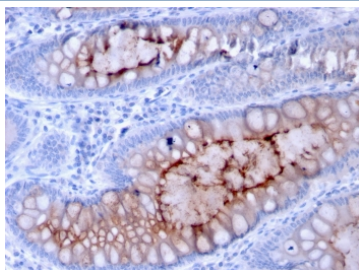


## MUC4 Antibody / Mucin-4 [clone MUC4/3084] (V7541)

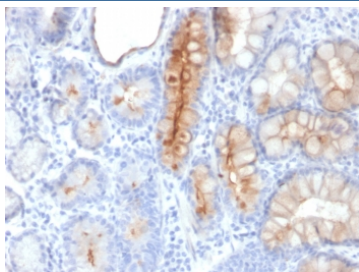
Catalog No.	Formulation	Size
V7541-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7541-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7541SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7541IHC-7ML	Prediluted 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](#)

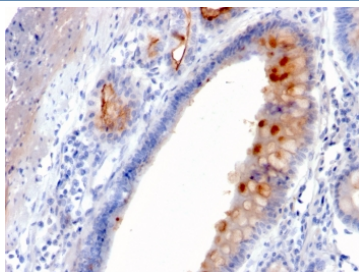
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	MUC4/3084
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	Q99102
<b>Localization</b>	Cytoplasmic
<b>Applications</b>	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT (1)
<b>Limitations</b>	This MUC4 antibody is available for research use only.



IHC testing of FFPE human colon carcinoma with MUC4 antibody (clone MUC4/3084).  
 HIER: requires steaming of sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.

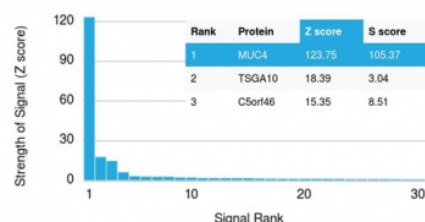


IHC testing of FFPE human gastric carcinoma with MUC4 antibody (clone MUC4/3084).  
HIER: requires steaming of sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.

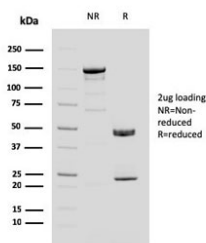


IHC testing of FFPE human gastric carcinoma with MUC4 antibody (clone MUC4/3084).  
HIER: requires steaming of sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.

Human Protein Microarray Specificity Validation



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using MUC4 antibody (clone MUC4/3084). These results demonstrate the foremost specificity of the MUC4/3084 mAb.  
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free MUC4 antibody (clone MUC4/3084) as confirmation of integrity and purity.

## Description

The major constituents of mucus, the viscous secretion that covers epithelial surfaces such as those in the trachea, colon, and cervix, are highly glycosylated proteins called mucins. These glycoproteins play important roles in the protection of the epithelial cells and have been implicated in epithelial renewal and differentiation. This gene encodes an integral membrane glycoprotein found on the cell surface, although secreted isoforms may exist. MUC-4 transcripts have been detected in normal respiratory epithelium and lung. MUC-4 is a very specific (100%) and sensitive (90%) marker of lung adenocarcinomas and is negative for mesotheliomas. Reportedly, MUC-4 expression in invasive ductal carcinoma of the pancreas is an independent factor for poor prognosis.

## Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the MUC4 antibody to be titrated up or down for optimal performance.

1. 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**

Amino acids 1730-1864 from the human protein were used as the immunogen for this MUC4 antibody.

## **Storage**

Store the MUC4 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).