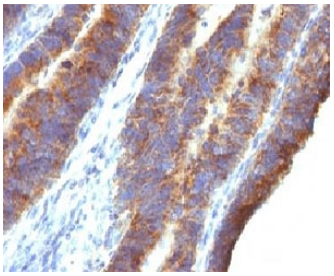
Mucin-3 Antibody [clone M3.1] (V2730)

Catalog No.	Formulation	Size
V2730-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2730-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2730SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2730IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

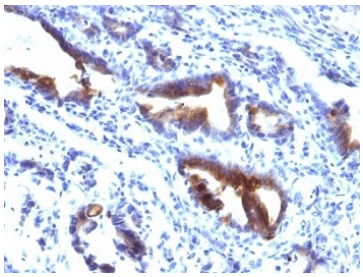
Citations (10)

Bulk quote request

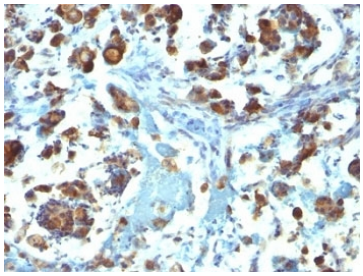
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	M3.1
Purity	Protein G affinity chromatography
UniProt	Q02505
Localization	Cytoplasmic and cell surface
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Mucin-3 antibody is available for research use only.



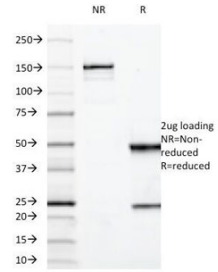
IHC: Formalin-fixed, paraffin-embedded human colon carcinoma stained with Mucin-3 antibody (M3.1).



IHC: Formalin-fixed, paraffin-embedded human gastric carcinoma stained with Mucin-3 antibody (M3.1).



IHC: Formalin-fixed, paraffin-embedded human gastric carcinoma stained with Mucin-3 antibody (M3.1).



SDS-PAGE Analysis of Purified, BSA-Free Mucin-3 Antibody (clone M3.1). Confirmation of Integrity and Purity of the Antibody.

Description

It recognizes a protein of HMW, identified as mucin 3 glycoprotein (MUC3). Its epitope localizes between amino acids SITTTE. This mAb shows no cross-reaction with human milk fat globule membranes, MUC1, or MUC2. MUC3 is distributed in colon and rectum, and is also present to a lesser extent in breast, lung and salivary gland tissues. The Mucins are a family of highly glycosylated, secreted proteins with a basic structure consisting of a variable number of tandem repeats (VNTRs) encoded by 60 base pairs (Mucin 1), 69 base pairs (Mucin 2) and 51 base pairs (Mucin 3). The number of repeats is highly polymorphic and varies among different alleles. Mucin 1 proteins are expressed as type I membrane proteins in addition to secreted forms. Mucin 1 is aberrantly expressed in epithelial tumors including breast carcinomas. Mucin 2 coats the epithelia of the intestines and airways and is associated with colonic tumors. Mucin 3 is a major component of various mucus gels and is broadly expressed in normal and tumor cells.

Application Notes

Optimal dilution of the Mucin-3 antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, 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

Amino acids (C-HSTPSFTSSITTTETTSHSTPSFTSSITTTETTS) which contains two of the MUC3 tandem repeats was used as the immunogen for the Mucin-3 antibody.

Storage

Store the Mucin-3 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).