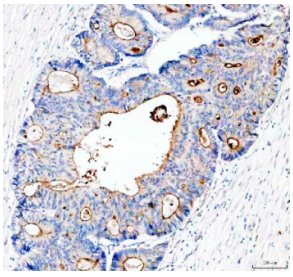
MUC13 Antibody / Mucin 13 (RQ5090)

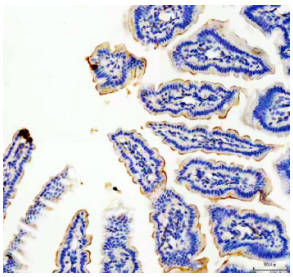
Catalog No.	Formulation	Size
RQ5090	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

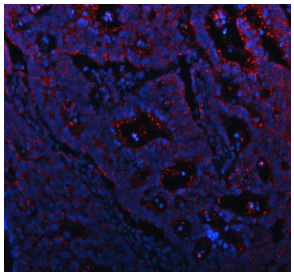
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9H3R2
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This MUC13 antibody is available for research use only.



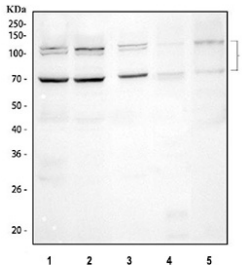
IHC staining of FFPE human colon cancer tissue with MUC13 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE mouse colon tissue with MUC13 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human colon cancer tissue with MUC13 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



Western blot testing of 1) human Caco-2, 2) human A549, 3) human HeLa, 4) rat stomach and 5) mouse stomach tissue lysate with MUC13 antibody. Predicted molecular weight ~55 kDa but may be observed at higher molecular weights due to glycosylation.

Description

MUC13 (Mucin 13) is a transmembrane glycoprotein that belongs to the mucin family of proteins, which are characterized by their extensive O-linked glycosylation. MUC13 contributes to forming protective mucous barriers on epithelial surfaces and plays roles in maintaining epithelial integrity, signaling, and host defense.

MUC13 is expressed in gastrointestinal, respiratory, and reproductive tract epithelia. Dysregulation of MUC13 expression has been associated with inflammatory diseases and various cancers, including gastric, colorectal, and pancreatic tumors. Its role in epithelial barrier function and disease progression makes it a significant target for biomedical research.

Using a high-quality MUC13 antibody enables sensitive detection in applications such as western blot, immunohistochemistry, and immunofluorescence. A MUC13 antibody from NSJ Bioreagents ensures reproducibility and specificity for studies in epithelial biology, mucosal defense, and cancer research. Selecting the right MUC13 antibody is essential for generating consistent and reliable data.

Application Notes

Optimal dilution of the MUC13 antibody should be determined by the researcher.

Immunogen

Amino acids E226-S312 from the human protein were used as the immunogen for the MUC13 antibody.

Storage

Store the MUC13 antibody at -20oC.