

For Research Use Only

# MUC2 Polyclonal antibody

Catalog Number: 27675-1-AP

89 Publications



## Basic Information

Catalog Number:

27675-1-AP

Concentration:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG25800

GenBank Accession Number:

M94132

GeneID (NCBI):

4583

Full Name:

mucin 2, oligomeric mucus/gel-forming

Calculated MW:

540 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IHC 1:1000-1:4000

IF-P 1:50-1:500

IF/ICC 1:200-1:800

## Applications

Tested Applications:

IHC, IF/ICC, IF-P, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig, duck, mosquito

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

**IHC** : human colon tissue, human pancreas cancer tissue, mouse small intestine tissue, rat small intestine tissue

**IF-P** : human colon tissue, mouse colon tissue, rat small intestine tissue

**IF/ICC** : HepG2 cells, SW480 cells

## Background Information

This gene encodes a member of the mucin protein family. Mucins are high molecular weight glycoproteins produced by many epithelial tissues. The protein encoded by this gene is secreted and forms an insoluble mucous barrier that protects the gut lumen. The protein polymerizes into a gel of which 80% is composed of oligosaccharide side chains by weight. Downregulation of this gene has been observed in patients with Crohn disease and ulcerative colitis.

## Notable Publications

Author	Pubmed ID	Journal	Application
Nimra Zafar Siddiqui	36115959	Gut Pathog	IHC
Jianming Yang	36114582	Microbiome	IHC,IF
Shanshan Hu	34460244	J Agric Food Chem	IF

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

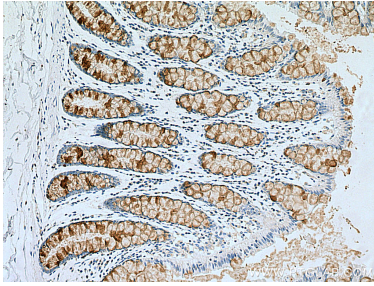
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

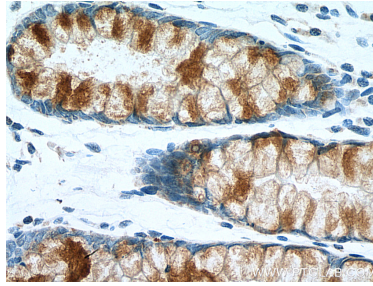
W: [ptgcn.com](http://ptgcn.com)

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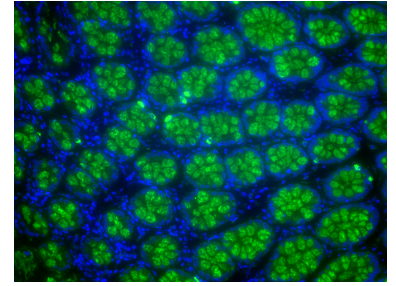
## Selected Validation Data



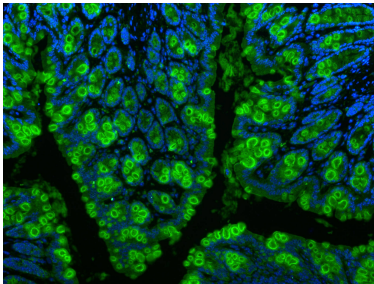
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 27675-1-AP (MUC2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



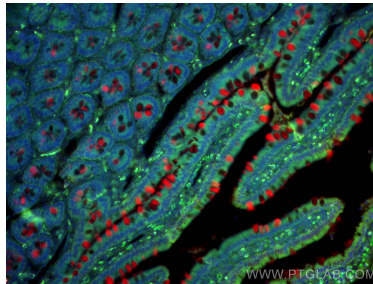
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 27675-1-AP (MUC2 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



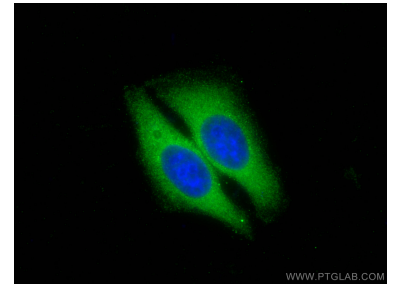
Immunofluorescent analysis of (4% PFA) fixed human colon tissue using MUC2 antibody (27675-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



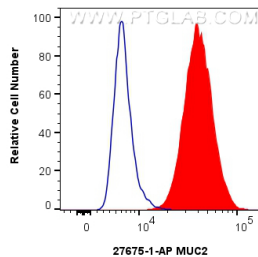
Immunofluorescent analysis of (4% PFA) fixed mouse colon tissue using MUC2 antibody (27675-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat small intestine tissue using MUC2 antibody (27675-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 594-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR004), smooth muscle actin specific antibody (67735-1-Ig, Clone: 1E9A11, green). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using MUC2 antibody (27675-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1x10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.13 ug MUC2 Polyclonal antibody (27675-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.13 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).