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**Product Name: MUC2 Mouse Monoclonal Antibody****Catalog #: AMM82455**

For research use only.

**Summary**

<b>Description</b>	Mouse monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	IHC,ELISA,FC
<b>Reactivity</b>	Human,Mouse,Rat,Rabbit
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG1
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Purified antibody in PBS with 0.05% sodium azide
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	IHC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
<b>Molecular Weight</b>	540kDa

**Antigen Information**

<b>Gene Name</b>	MUC2
<b>Alternative Names</b>	MLP; SMUC; MUC-2
<b>Gene ID</b>	4583.0
<b>SwissProt ID</b>	Q02817
<b>Immunogen</b>	Purified recombinant fragment of human MUC2 (AA: 4373-4557) expressed in E. Coli.

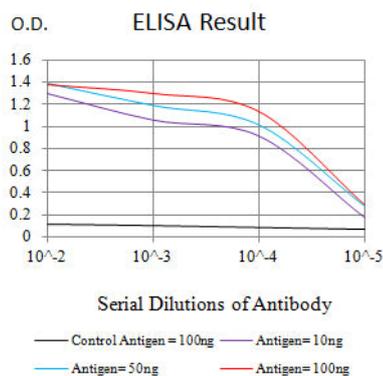
**Background**

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. The protein

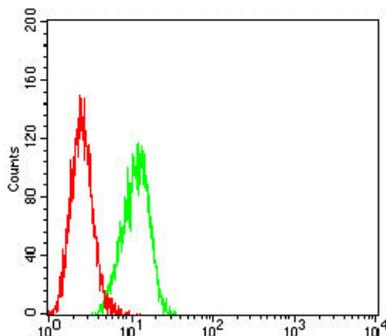
features a central domain containing tandem repeats rich in threonine and proline that varies between 50 and 115 copies in different individuals. Downregulation of this gene has been observed in patients with Crohn disease and ulcerative colitis.

## Research Area

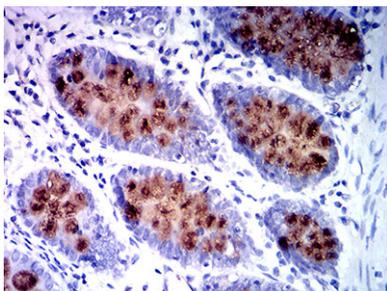
## Image Data



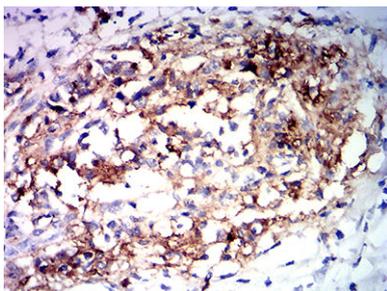
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)



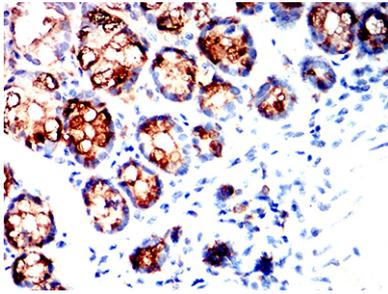
Flow cytometric analysis of HL7702 cells using MUC2 mouse mAb (green) and negative control (red).



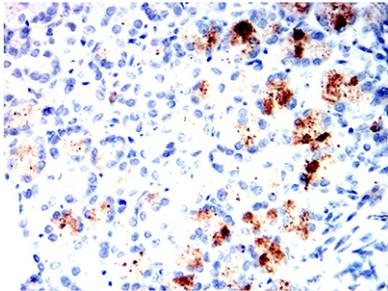
Immunohistochemical analysis of paraffin-embedded human colon tissues using MUC2 mouse mAb with DAB staining.



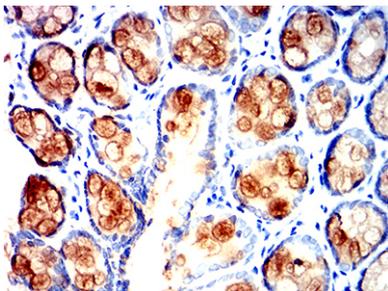
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissues using MUC2 mouse mAb with DAB staining.



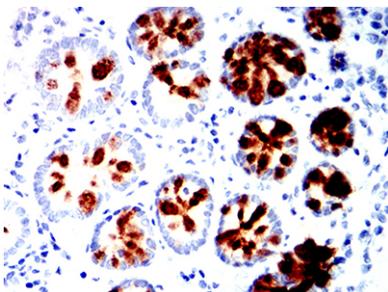
Immunohistochemical analysis of paraffin-embedded Mouse colon using MUC2 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Mouse kidney using MUC2 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Rat colon using MUC2 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Rabbit colon using MUC2 mouse mAb with DAB staining.