MUC2 (PT0660R) PT™ Rabbit mAb

CatalogNo: YM8469 Recombinant IHC

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 551kD (Calculated)

140-170kD (Observed)

Isotype
- IgG,Kappa

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Recommended Dilution Ratios

IHC 1:1000-1:4000
WB 1:2000-1:10000
IF 1:200-1:1000
ELISA 1:5000-1:20000

Basic Information

Clonality	Monoclonal
Clone Number	PT0660R

Immunogen Information

Immunogen	The specific immunogen used to produce this antibody is proprietary information.
Specificity	Endogenous

Target Information

Gene name MUC2 SMUC

Protein Name Mucin-2 (MUC-2) (Intestinal mucin-2)

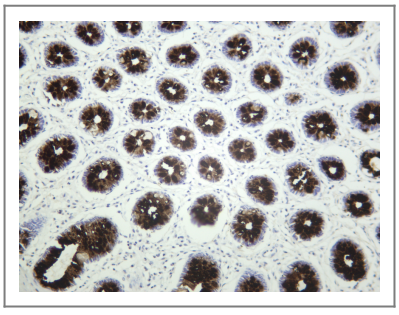
Organism	Gene ID	UniProt ID
Human	4583;	Q02817;

Cellular Localization Secreted

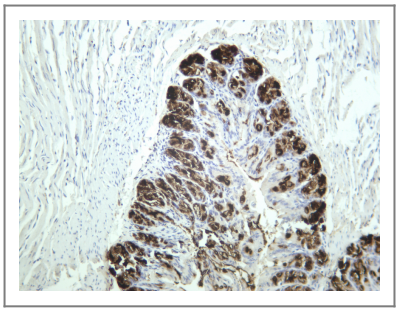
Tissue specificity Colon, small intestine, colonic tumors, bronchus, cervix and gall bladder.

Function Function:Coats the epithelia of the intestines, airways, and other mucus membrane-containing organs. Thought to provide a protective, lubricating barrier against particles and infectious agents at mucosal surfaces. Major constituent of both the inner and outer mucus layers of the colon and may play a role in excluding bacteria from the inner mucus layer.,polymorphism:The number of repeats is highly polymorphic and varies among different alleles.,PTM:At low pH of 6 and under, undergoes autocatalytic cleavage in vitro in the N-terminal region of the fourth VWD domain. It is likely that this also occurs in vivo and is triggered by the low pH of the late secretory pathway.,PTM:May undergo proteolytic cleavage in the outer mucus layer of the colon, contributing to the expanded volume and loose nature of this layer which allows for bacterial colonization in contrast to the inner mucus layer which is dense and devoid of bacteria.,PTM:O-glycosylated.,similarity:Contains 1 CTCK (C-terminal cystine knot-like) domain.,similarity:Contains 1 TIL (trypsin inhibitory-like) domain.,similarity:Contains 2 VWFC domains.,similarity:Contains 4 VWFD domains.,subunit:Homotrimer; disulfide-linked. Dimerizes in the endoplasmic reticulum via its C-terminal region and polymerizes via its N-terminal region by disulfide-linked trimerization. Interacts with FCGBP.,tissue specificity:Colon, small intestine, colonic tumors, bronchus, cervix and gall bladder.,

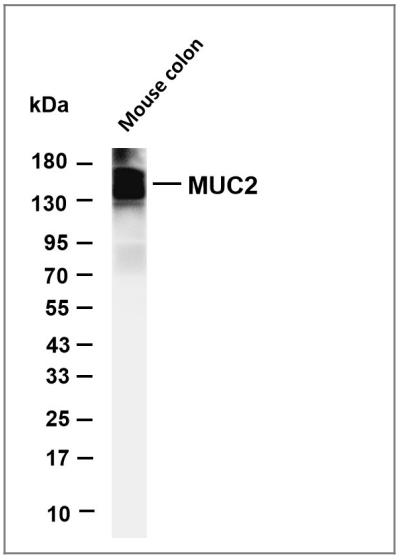
Validation Data



Human colon was stained with anti-MUC2 rabbit antibody



Mouse colon was stained with anti-MUC2 rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-MUC2 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: Mouse colon Predicted band size: 551kDa Observed band size: 140-170kDa

Contact information

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Please scan the QR code to access additional product information:
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