



Rabbit Anti-MUC2 antibody

SL60331R

Product Name	MUC2
Chinese Name	粘蛋白-2/上皮膜抗原 2 抗体
Alias	MLP; SMUC; Intestinal mucin 2; MUC 2; MUC2; Mucin 2; Mucin 2 intestinal; Mucin 2 intestinal/tracheal; Mucin 2 oligomeric mucus/gel forming; Mucin 2 precursor; Mucin 2 tracheal; Mucin like protein; Intestinal mucin-2; MUC-2; MUC2_HUMAN; Mucin-2; Mucin2.
Research Area	Tumour Signal transduction glycoprotein Cell type markers TumourCell biologyMaker
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, IHC-P=1:50-200,IHC-F=1:50-200,ICC/IF=1:50-200,IF=1:50-200,WB=1:500-2000 (Paraffin sections need antigen repair)
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	570kDa
Cellular localization	Secretory protein
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human MUC2
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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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. Alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known. [provided by RefSeq, Jul 2008]

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.

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. Interacts with AGR2; disulfide-linked.

Product Detail

Subcellular Location:

Secreted. Note=In the intestine, secreted into the inner and outer mucus layers.

Tissue Specificity:

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

Post-translational modifications:

O-glycosylated. 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. 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.

Similarity:

Contains 1 CTCK (C-terminal cystine knot-like) domain. Contains 1 TIL (trypsin inhibitory-like) domain. Contains 2 VWFC domains.

SWISS:

Q02817

Gene ID:

4583

Database links:

[Entrez Gene: 4583](#) Human

[Entrez Gene: 17831](#) Mouse

[Entrez Gene: 24572](#) Rat

[SwissProt: Q02817](#) Human

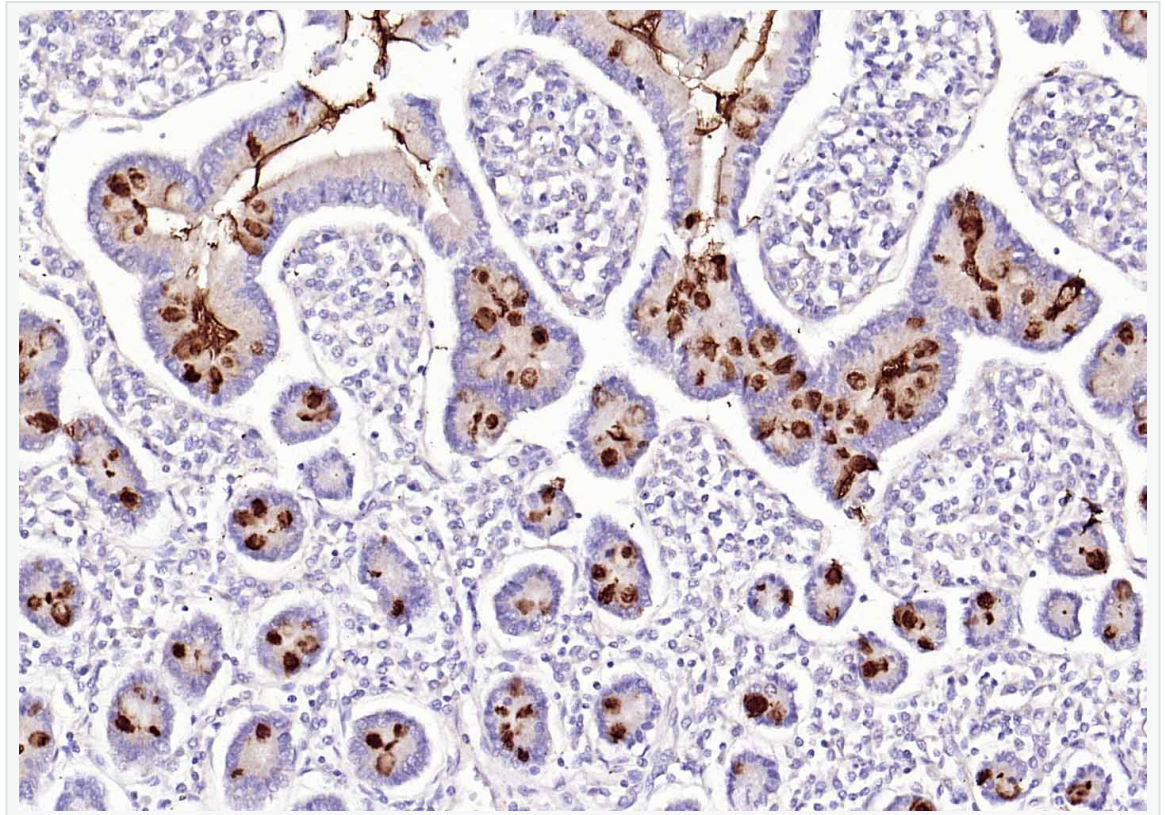
[SwissProt: Q80Z19](#) Mouse

[SwissProt: Q62635](#) Rat

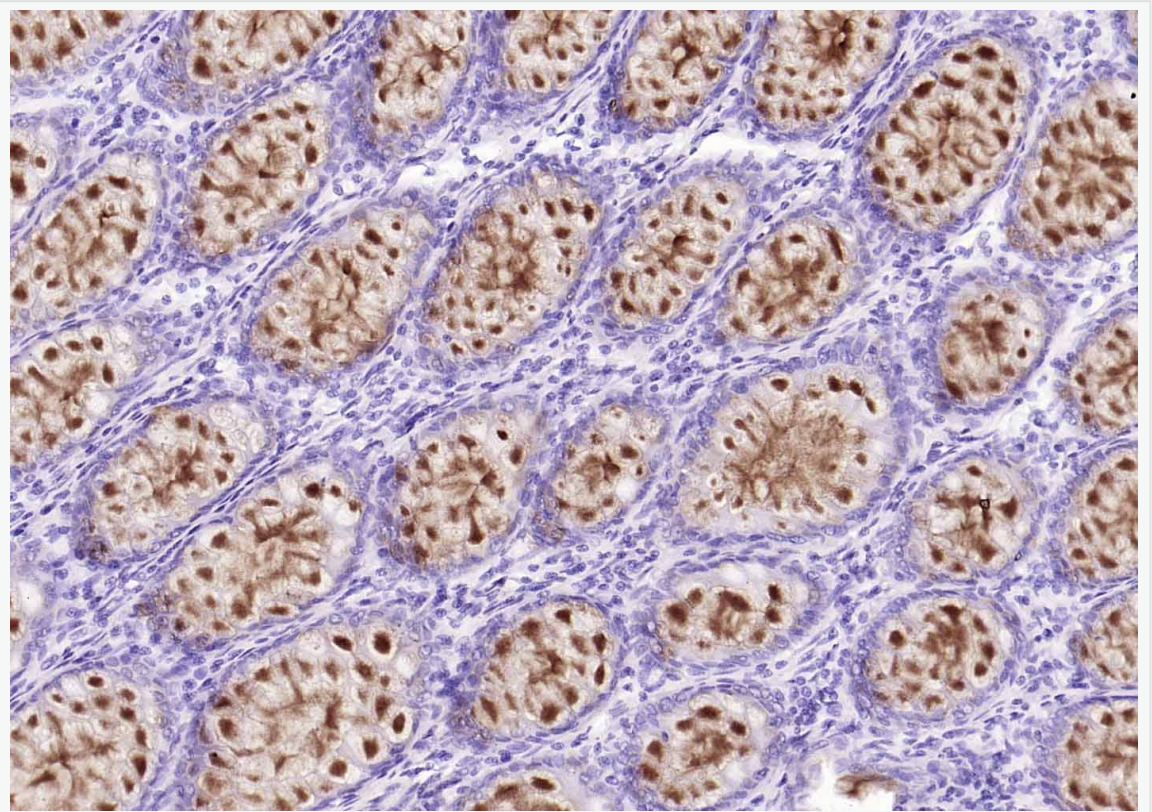
细胞粘附蛋白（Cell Adhesion Protein）

上皮膜抗原是粘性 glycoprotein 家族之一,是一种膜内在 glycoprotein。Muc-2 表达仅限于内膜腺上皮和腔上皮,很多 epithelial cells 及其来源的 Tumour 表达该蛋白.其合成和分泌是腺上皮组织的特征之一。MUC-2 也是一种主要的肠道粘蛋白,在正常肠道和结肠癌、胃癌等 Tumour 中有广泛分布。该抗体主要用于胃肠道 Tumour 的研究。

**Product
Picture**

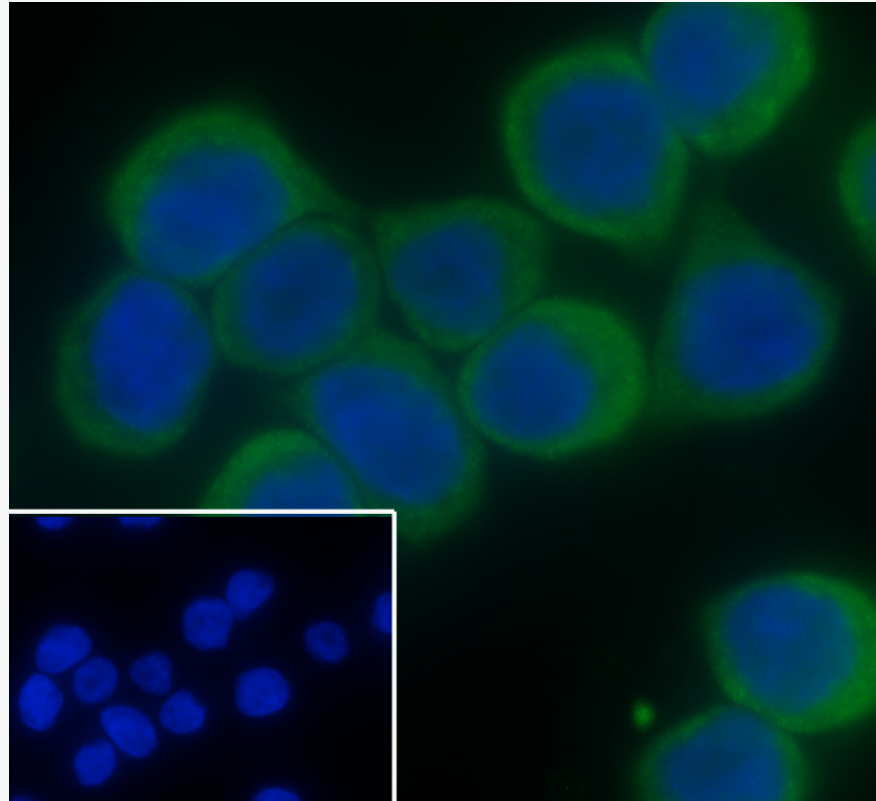


Paraformaldehyde-fixed, paraffin embedded (Human duodenum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (MUC2) Polyclonal Antibody, Unconjugated (SL60331R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for

30min; Incubation with (MUC2) Polyclonal Antibody, Unconjugated (SL60331R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Cell line: HT-29 Fixative: 4% Paraformaldehyde Permeabilization: 0.1% TritonX-100
Primary ab dilution: 1:50 Primary incubation condition: 4°C overnight Nuclear counter
stain: DAPI (Blue) Comment: Color green is the positive signal for SL60331R