

**bs-60331R****[ Primary Antibody ]****MUC2 Rabbit pAb****Bioss**  
**ANTIBODIES**

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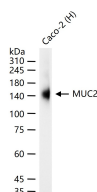
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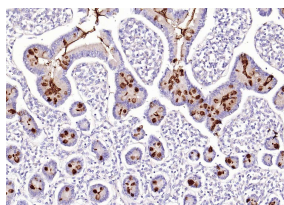
400-901-9800

**— DATASHEET —**

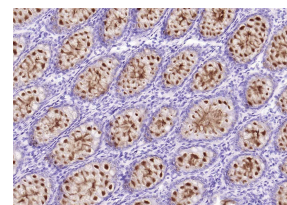
|  |                      |   |
|--|----------------------|---|
| <b>Host:</b> Rabbit  | <b>Isotype:</b> IgG  | <b>Applications:</b> <b>WB</b> (1:500-2000)<br><b>IHC-P</b> (1:50-200)<br><b>IHC-F</b> (1:50-200)<br><b>IF</b> (1:50-200)<br><b>ICC/IF</b> (1:50-200) |
| <b>Clonality:</b> Polyclonal   |                      | <b>Reactivity:</b> Human  |
| <b>GeneID:</b> 4583  | <b>SWISS:</b> Q02817 |   |
| <b>Target:</b> MUC2  |                      |   |
| <b>Purification:</b> affinity purified by Protein A  |                      |   |
| <b>Concentration:</b> 1mg/ml   |                      |   |
| <b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.<br>Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.   |                      | <b>Predicted MW.:</b> 570 kDa   |
| <b>Background:</b> 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] |                      | <b>Subcellular Location:</b> Secreted   |

**— VALIDATION IMAGES —**

25 ug total protein per lane of various lysates (see on figure) probed with MUC2 polyclonal antibody, unconjugated (bs-60331R) at 1:500 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



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 (bs-60331R) 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 (bs-60331R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

**— SELECTED CITATIONS —**

- **[IF=5.561]** Qianqian Yao. et al. The Milk Active Ingredient, 2&prime;-Fucosyllactose, Inhibits Inflammation and Promotes MUC2 Secretion in LS174T Goblet Cells In Vitro. FOODS. 2023 Jan;12(1):186 IF ;Human. 36613400
- **[IF=3.337]** Wang, Chengyao. et al. Causative Role of Anoxic Environment in Bacterial Regulation of Human Intestinal Function. CELL MOL BIOENG. 2022 Sep;;1-12 IF ;Human. 10.1007/s12195-022-00735-x
- **[IF=3]** Pan Hang. et al. Curcumin attenuates aflatoxin B1-induced ileum injury in ducks by inhibiting NLRP3 inflammasome and regulating TLR4/NF-κB signaling pathway. MYCOTOXIN RES. 2024 Feb;;1-14 IF ;Duck. 38400893
- **[IF=2.3]** Le Zhang. et al. Intestinal stem cell-derived extracellular vesicles ameliorate necrotizing enterocolitis injury.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

MOL CELL PROBE. 2025 Feb;79:101997 IF ;Mouse. 39645054