

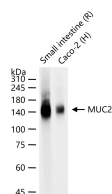
bsm-60016R**[Primary Antibody]****Bioss**
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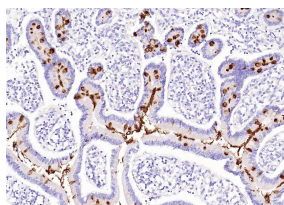
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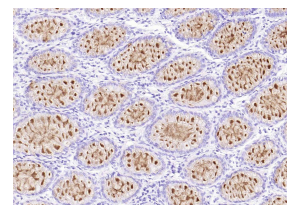
400-901-9800

MUC2 Recombinant Rabbit mAb**DATASHEET****Host:** Rabbit**Isotype:** IgG**Clonality:** Recombinant**CloneNo.:** 7F9**GeneID:** 4583**SWISS:** Q02817**Target:** MUC2**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.**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. Alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known. [provided by RefSeq, Jul 2008]**Applications:** WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1:50-100)**Reactivity:** Human, Rat**Predicted MW.:** 570 kDa**Subcellular Location:** Secreted**VALIDATION IMAGES**

25 ug total protein per lane of various lysates (see on figure) probed with MUC2 monoclonal antibody, unconjugated (bsm-60016R) at 1:1000 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) Monoclonal Antibody, Unconjugated (bsm-60016R) 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) Monoclonal Antibody, Unconjugated (bsm-60016R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

SELECTED CITATIONS

- **[IF=7.7]** Bingbing Guo. et al.β-1,3-glucans from Euglena Gracilis protects against ulcerative colitis via modulating the gut barrier, T-cell immunity and gut microbiota.international journal of biological macromolecules.2025 Feb 19;305(Pt 2):141288. Western blot ;Mouse. 39984099
- **[IF=6.1]** Xueran Mei. et al. Maternal Phlorizin Intake Protects Offspring from Maternal Obesity-Induced Metabolic Disorders in Mice via Targeting Gut Microbiota to Activate the SCFA-GPR43 Pathway. J AGR FOOD CHEM. 2024;XXXX(XXX):XXX-XXX IF ;Mouse. 38349207
- **[IF=5.988]** Yang Liu. et al. Platycodon grandiflorus polysaccharides deeply participate in the anti-chronic bronchitis

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effects of platycodon grandiflorus decoction, a representative of "the lung and intestine are related". FRONT PHARMACOL. 2022 Sep 7;13:927384 IHC ;Rat. 36160385

- **[IF=3.829]** Wang Ruibiao. et al. Effects of exosomes derived from *Trichinella spiralis* infective larvae on intestinal epithelial barrier function. VET RES. 2022 Dec;53(1):1-11 WB ;Pig. 36273217
- **[IF=2.9]** Hong-Yun Nie. et al. Moxifloxacin plus Cordyceps polysaccharide ameliorate intestinal barrier damage due to abdominal infection via anti-inflammation and immune regulation under simulated microgravity. LIFE SCI SPACE RES. 2024 Nov;; WB,IHC ;Rat. 10.1016/j.lssr.2024.11.005