

Product Datasheet

MUC2 Antibody - BSA Free

NBP1-31231

Unit Size: 100 ul

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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NBP1-31231

MUC2 Antibody - BSA Free

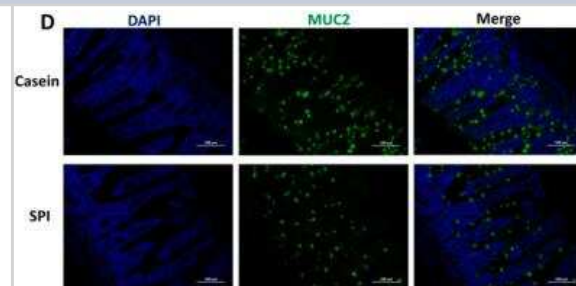
Product Information	
Unit Size	100 ul
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.025% Proclin 300
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS, 20% Glycerol
Target Molecular Weight	540 kDa

Product Description	
Description	Novus Biologicals Rabbit MUC2 Antibody - BSA Free (NBP1-31231) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-MUC2 Antibody: Cited in 44 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	4583
Gene Symbol	MUC2
Species	Human, Mouse, Rat, Porcine
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Bovine (86%).
Immunogen	Carrier-protein conjugated synthetic peptide encompassing a sequence within the C-terminus region of human MUC2. The exact sequence is proprietary.

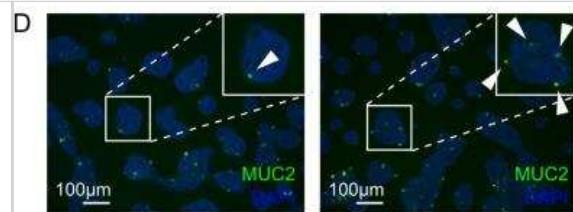
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Dot Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000, Immunohistochemistry-Frozen Assay dependent, Dot Blot Reported in scientific literature (PMID:32223302).

Images

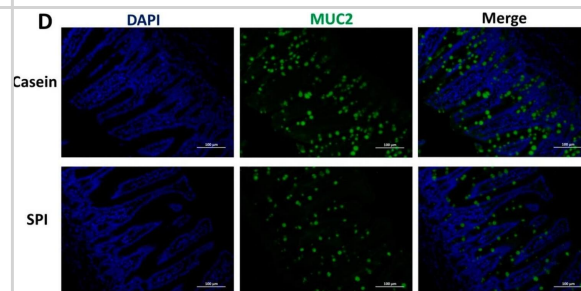
Immunohistochemistry: MUC2 Antibody [NBP1-31231] - Effect of SPI on mucin production in mouse ileum tissue. Representative micrographs for MUC2 staining and corresponding quantification of MUC2+ goblet cells per villus in the ileum tissue. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32911830>) licensed under a CC-BY license.



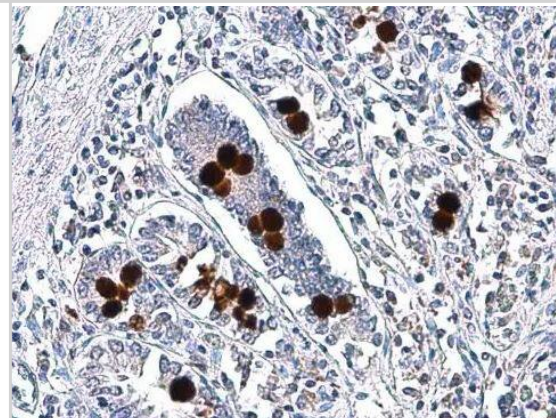
Immunocytochemistry/Immunofluorescence: MUC2 Antibody [NBP1-31231] - Milk-derived exosomes promote goblet cell expression in vitro. Representative micrographs for MUC2 immunofluorescent staining in LS174T control and exosome-treated cells (white arrows show positive stain). Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30699187/>) licensed under a CC-BY license.



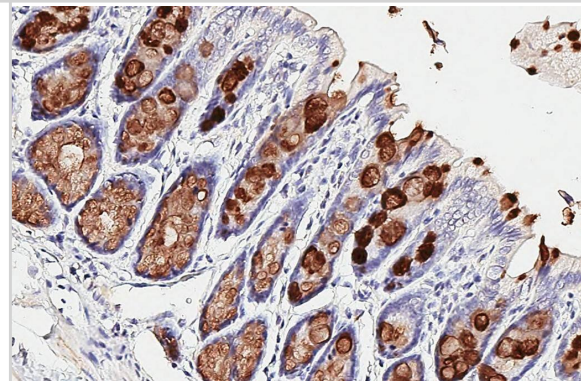
Effect of SPI on mucin production in mouse ileum tissue. (A) qRT-PCR analysis of Muc1, Muc2, Tff3, Grp94, and Agr2 mRNA expression levels in mouse ileum tissue (normalized against Actb (β -actin); $n = 8$). (B,C) Representative PAS-stained histomicrographs and corresponding quantification of goblets cell per villus in the ileum tissue ($n = 6$). (D,E) Representative micrographs for MUC2 staining and corresponding quantification of MUC2+ goblet cells per villus in the ileum tissue ($n = 6$). All data are presented as means \pm SEM. * $p < 0.05$; ** $p < 0.01$. Statistical significance was calculated using t-tests. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/32911830/>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



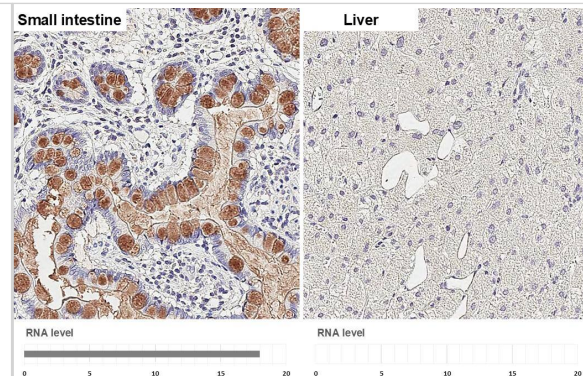
Immunohistochemistry-Paraffin: MUC2 Antibody [NBP1-31231] -Human intestine. MUC2 antibody [C3], C-term diluted at 1:750. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



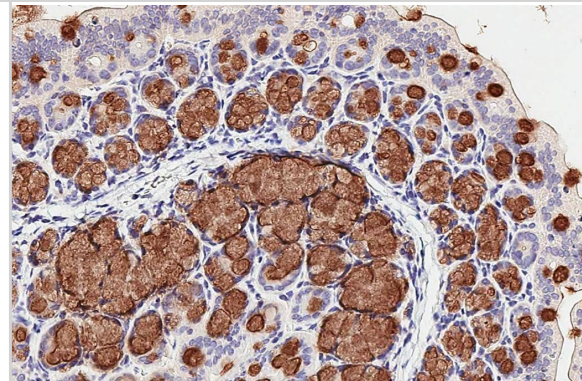
MUC2 antibody [C3], C-term detects MUC2 protein by immunohistochemical analysis. Sample: Paraffin-embedded rat colon. MUC2 stained by MUC2 antibody [C3], C-term (NBP1-31231) diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



MUC2 antibody [C3], C-term detects MUC2 protein by immunohistochemical analysis. Sample: Paraffin-embedded human tissues. MUC2 stained by MUC2 antibody [C3], C-term (NBP1-31231) diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min. Corresponding RNA levels (RPKM) in the tissues are based on NCBI database.



MUC2 antibody [C3], C-term detects MUC2 protein by immunohistochemical analysis. Sample: Paraffin-embedded mouse colon. MUC2 stained by MUC2 antibody [C3], C-term (NBP1-31231) diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



Publications

Tulesin M, Beer L, Roessler S et al. Detailed characterization and comparison of mouse models for cholangiocarcinoma. *Laboratory investigation; a journal of technical methods and pathology* 2025-09-16 [PMID: 40967440]

Du J, Sarkar R, Li Y et al. N6-adenomethylation of GsdmC is essential for Lgr5+ stem cell survival to maintain normal colonic epithelial morphogenesis *Developmental cell* 2022-08-22 [PMID: 35917813] (Immunohistochemistry-Paraffin, Human)

Chamignon C, Mallaret G, Rivière J et al. Beneficial Effects of Lactobacilli Species on Intestinal Homeostasis in Low-Grade Inflammation and Stress Rodent Models and Their Implication in the Modulation of the Adhesive Junctional Complex Biomolecules 2023-08-24 [PMID: 37759696] (Immunohistochemistry-Paraffin, Human)

Melhem H, Kaya B, Kaymak T et al. Epithelial GPR35 protects from *Citrobacter rodentium* infection by preserving goblet cells and mucosal barrier integrity *Mucosal Immunology* 2022-03-09 [PMID: 35264769] (Immunohistochemistry-Paraffin, Human)

Oosterlinck B, Ceuleers H, Arras W et al. Mucin-microbiome signatures shape the tumor microenvironment in gastric cancer *Microbiome* 2023-04-21 [PMID: 37085819] (Immunohistochemistry-Paraffin, Human)

Sonomoto K, Song R, Eriksson D et al. High-fat-diet-associated intestinal microbiota exacerbates psoriasis-like inflammation by enhancing systemic T_H17 cell IL-17 production *Cell Reports* 2023-07-25 [PMID: 37421628] (Immunohistochemistry-Paraffin, Human)

Das TK, Blasco-Conesa MP, Korf J et al. Bacterial Amyloid Curli Associated Gut Epithelial Neuroendocrine Activation Predominantly Observed in Alzheimer's Disease Mice with Central Amyloid- β Pathology *Journal of Alzheimer's Disease* 2022-08-30 [PMID: 35527554] (Immunohistochemistry-Paraffin, Human)

Ludikhuizen MC, Meerlo M, Gallego MP et al. Mitochondria Define Intestinal Stem Cell Differentiation Downstream of a FOXO/Notch Axis *BMC Neurosci* 2020-10-31 [PMID: 33147486]

Jarret A, Jackson R, Duizer C et al. Enteric Nervous System-Derived IL-18 Orchestrates Mucosal Barrier Immunity *Cell* 2020-01-09 [PMID: 31923399]

Eshleman EM, Rice T, Potter C, Waddell A et al. Microbiota-derived butyrate restricts tuft cell differentiation via histone deacetylase 3 to modulate intestinal type 2 immunity *Immunity* 2024-01-31 [PMID: 38295798]

Sato K, Hara-Chikuma M, Yasui M, Inoue J et al. Sufficient water intake maintains the gut microbiota and immune homeostasis and promotes pathogen elimination *iScience* 2024-05-27 [PMID: 38799550]

Cheng L, Wu H, Cai X, Zhang Y et al. A Gpr35-tuned gut microbe-brain metabolic axis regulates depressive-like behavior *Cell Host Microbe* 2024-01-10 [PMID: 38198925]

More publications at <http://www.novusbio.com/NBP1-31231>





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Products Related to NBP1-31231

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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