Product Datasheet

MUC2 Antibody (996/1) - BSA Free NB120-11197-0.025mg

Unit Size: 0.025 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.





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NB120-11197-0.025mg

MUC2 Antibody (996/1) - BSA Free

Product Information	
Unit Size	0.025 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	996/1
Preservative	0.02% Sodium Azide
Isotype	lgG1
Purity	Protein A or G purified
Buffer	PBS
Target Molecular Weight	540 kDa
Product Description	
Host	Mouse
Gene ID	4583
Gene Symbol	MUC2
Species	Human, Mouse
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions. Mouse reactivity reported in scientific literature (PMID: 24045942).
Specificity/Sensitivity	MUC2 Antibody (996/1) recognizes the human MUC2 mucin, and shows no cross-reactivity with MUC1, MUC3 or MUC4 mucins. In tissue sections colon, liver and prostate stain strongly. It recognizes malignant colonic mucosa and normal mucosa.
Immunogen	This MUC2 Antibody (996/1) was developed against MUC2 tandem repeat peptide
Product Application Details	
Applications	Western Blot, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:100-1:2000, Flow Cytometry 1:10-1:1000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500, Flow (Intracellular)
Application Notes	Membrane permeabilization is required for Flow Cytometry.















Publications

Capdevila C, Miller J, Cheng L, Kornberg A et Al. Time-resolved fate mapping identifies the intestinal upper crypt zone as an origin of Lgr5+ crypt base columnar cells Cell 2024-06-07 [PMID: 38848677]

Xie Z, Li M, Qian M et al. Co-Cultures of Lactobacillus acidophilus and Bacillus subtilis Enhance Mucosal Barrier by Modulating Gut Microbiota-Derived Short-Chain Fatty Acids Nutrients 2022-10-25 [PMID: 36364738] (Western Blot)

Wanner N, Barnhart J, Apostolakis N Et al. Using the Autofluorescence Finder on the Sony ID7000(TM) Spectral Cell Analyzer to Identify and Unmix Multiple Highly Autofluorescent Murine Lung Populations Front Bioeng Biotechnol 2022-04-04 [PMID: 35372303] (FLOW, Mouse)

Details:

Citation using the Alexa Fluor 532 version of this antibody.

Bao L, Cui X, Wang X et al. Carbon Nanotubes Promote the Development of Intestinal Organoids through Regulating Extracellular Matrix Viscoelasticity and Intracellular Energy Metabolism ACS Nano 2021-10-26 [PMID: 34622660]

Details:

Citation using the PE format of this antibody.

Talbot S, Doyle B, et al. Vagal sensory neurons drive mucous cell metaplasia. J Allergy Clin Immunol 2020-06-01 [PMID: 31954778] (FLOW, Mouse)

Xu P, Xi Y, Zhu J et al. Intestinal Sulfation Is Essential to Protect Against Colitis and Colonic Carcinogenesis Gastroenterology 2021-04-02 [PMID: 33819483] (IF/IHC, Mouse)

Yang KS, Ciprani D, O'Shea A et al. EXTRACELLULAR VESICLE ANALYSIS ALLOWS FOR IDENTIFICATION OF INVASIVE IPMN Gastroenterology 2020-12-07 [PMID: 33301777] (Human)

Wu H, Chen QY, Wang WZ et al. Compound sophorae decoction enhances intestinal barrier function of dextran sodium sulfate induced colitis via regulating notch signaling pathway in mice Biomed Pharmacother 2020-11-17 [PMID: 33217689] (WB, Mouse)

Li B, Lee C et al. Inhibition of corticotropin-releasing hormone receptor 1 and activation of receptor 2 protect against colonic injury and promote epithelium repair. Sci Rep 2017-11-05 [PMID: 31748698] (IF/IHC, Mouse)

Yu Y, Lu J, Oliphant K et al. Maternal administration of probiotics promotes gut development in mouse offsprings PLoS ONE 2020-08-07 [PMID: 32764797] (Mouse)

Li B, Lee C, Filler T, Hock A Inhibition of corticotropin-releasing hormone receptor 1 and activation of receptor 2 protect against colonic injury and promote epithelium repair Sci Rep. 2017-05-10 [PMID: 28492284] (IF/IHC, Mouse)

Mishra J, Verma RK, Alpini G et al. Role of janus kinase 3 in mucosal differentiation and predisposition to colitis. J Biol Chem. 2013-11-01 [PMID: 24045942] (IHC-Fr, Mouse)



www.novusbio.com



Novus Biologicals USA

10730 E. Briarwood Avenue Centennial, CO 80112 USA Phone: 303.730.1950 Toll Free: 1.888.506.6887 Fax: 303.730.1966 nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave Toronto, ON M8Z 4E6 Canada Phone: 905.827.6400 Toll Free: 855.668.8722 Fax: 905.827.6402 canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB, United Kingdom Phone: (44) (0) 1235 529449 Free Phone: 0800 37 34 15 Fax: (44) (0) 1235 533420 info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com Technical Support: nb-technical@biotechne.com Orders: nb-customerservice@bio-techne.com General: novus@novusbio.com

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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