

Product Datasheet

MUC5AC Antibody (45M1)

NBP2-15196-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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NBP2-15196-0.1mg

MUC5AC Antibody (45M1)

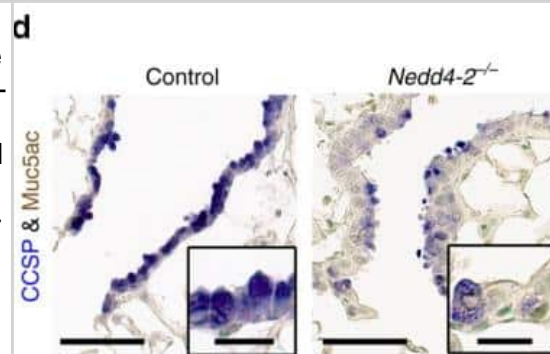
Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	45M1
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-32732) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	4586
Gene Symbol	MUC5AC
Species	Human, Mouse, Rat, Porcine, Chicken, Feline, Mammal, Monkey, Rabbit, Bovine (Negative)
Reactivity Notes	Hedgehog. Does not react with Bovine. Use in Mouse reported in scientific literature (PMID:34260916)
Specificity/Sensitivity	This monoclonal antibody recognizes the peptide core of gastric mucin M1 (recently identified as Mucin 5AC). Its epitope is located in the C-terminal cysteine rich part of the peptide core of MUC5AC. Its epitope is destroyed by beta-mercaptoethanol but not by periodate treatment. This mucin is present in primary ovarian mucinous cancer but usually absent in colorectal adenocarcinoma, thus showing an expression pattern opposite to MUC2. Together with a panel of antibodies, Anti-MUC5AC may be useful for differential identification of primary mucinous ovarian tumors from colon adenocarcinoma metastatic to the ovary. MUC5AC antibodies may also be useful for identification of intestinal metaplasia as well as in the identification of pancreatic carcinoma and pre-cancerous changes vs. normal pancreas.
Immunogen	M1 mucin preparation from the fluid of an ovarian mucinous cyst belonging to an O Le(a-b) patient
Product Application Details	
Applications	Western Blot, Dot Blot, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot, Flow Cytometry 0.5-1ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml, Immunohistochemistry-Frozen 0.5ug/ml, Dot Blot, Flow (Intracellular)

Application Notes

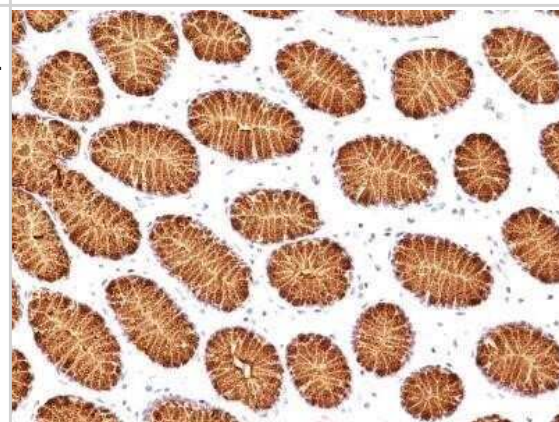
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. Use in IHC-P reported in scientific literature (PMID:34260916).

Images

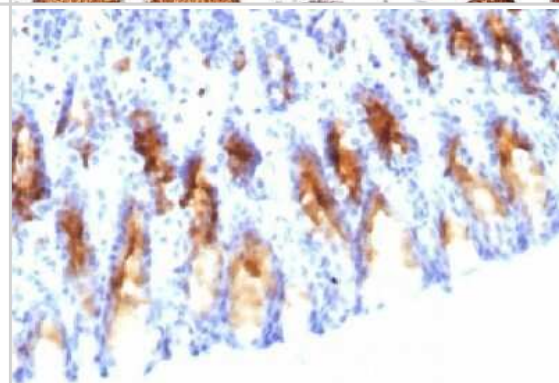
Immunohistochemistry: MUC5AC Antibody (45M1) [NBP2-15196] - Representative micrographs and high magnification insets illustrating the airway cell population of terminal bronchioles from conditional *Nedd4-2*^{-/-} mice and littermate controls after 3 months of doxycycline induction with anti-Muc5ac and anti-CCSP antibodies (n = 4/group). Scale bars, 60 and 15 um (insets). Image collected and cropped by CiteAb from the following publication <https://www.nature.com/articles/s41467-020-15743-6> licensed under a CC-BY license.



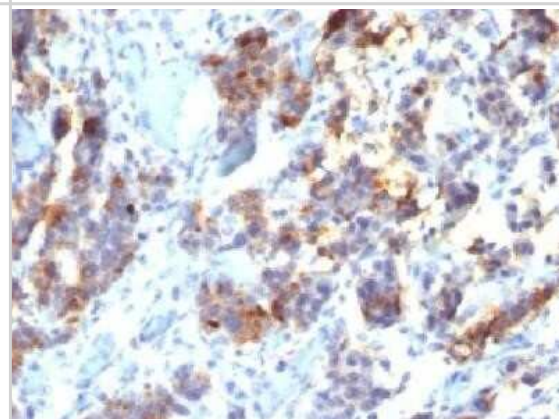
Immunohistochemistry-Paraffin: MUC5AC Antibody (45M1) [NBP2-15196] - Analysis using the Azide and BSA Free version of NBP2-15196. Detection Human stomach.



Immunohistochemistry-Paraffin: MUC5AC Antibody (45M1) [NBP2-15196] - Formalin-fixed, paraffin-embedded Rat stomach stained with MUC5AC Monoclonal Antibody (45M1).



Immunohistochemistry-Paraffin: MUC5AC Antibody (45M1) [NBP2-15196] - Formalin-fixed, paraffin-embedded human Gastric Carcinoma stained with MUC5AC Monoclonal Antibody (45M1).



Publications

Zania Diabasana, Jeanne-Marie Perotin, Randa Belgacemi, Julien Ancel, Pauline Mulette, Claire Launois et al. Chr15q25 Genetic Variant rs16969968 Alters Cell Differentiation in Respiratory Epithelia International Journal of Molecular Sciences 2021-06-22 [PMID: 34206324]

Chantal Cossette, Lisa A. Miller, Qiuji Ye, Shishir Chourey, Chintam Nagendra Reddy, Joshua Rokach, William S. Powell Targeting the OXE receptor with a selective antagonist inhibits allergen-induced pulmonary inflammation in non-human primates British journal of pharmacology 2022-01-07 [PMID: 34766334]

Yusuke Ueda, Haruta Mogami, Yosuke Kawamura, Masahito Takakura, Asako Inohaya, Eriko Yasuda, Yu Matsuzaka, Yoshitsugu Chigusa, Shinji Ito, Masaki Mandai, Eiji Kondoh Cervical MUC5B and MUC5AC are Barriers to Ascending Pathogens During Pregnancy. The Journal of clinical endocrinology and metabolism 2022-11-24 [PMID: 36112402]

Jung MA, Song HK, Jo K et al. Gleditsia sinensis Lam. aqueous extract attenuates nasal inflammation in allergic rhinitis by inhibiting MUC5AC production through suppression of the STAT3/STAT6 pathway Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie 2023-05-01 [PMID: 36921533] (IHC-P, Mouse)

Details:

Dilution used in IHC-P 1:1000

Xu K, Liu XN, Zhang HB et al. Tear film instability is associated with weakened colocalization between occludin and MUC5AC in scopolamine-induced dry eye disease (DED) rats International ophthalmology 2023-02-01 [PMID: 35908134]

Tao X, Li J, He J et al. Pinellia ternata (Thunb.) Breit. Attenuates the allergic airway inflammation of cold asthma via inhibiting the activation of TLR4-mediated NF- κ B and NLRP3 signaling pathway Journal of ethnopharmacology 2023-05-31 [PMID: 37268256]

Turner M, Cox K, Liu S et al. Specific Targeting and Labeling of Colonic Polyps in CPC-APC Mice with Mucin 5AC Fluorescent Antibodies: A Model for Detection of Early Colon Cancer Current Issues in Molecular Biology 2023-04-11 [PMID: 37185743] (IHC)

Koh K, Bonser L, Eckalbar W et al. Genomic characterization and therapeutic utilization of IL-13-responsive sequences in asthma Cell Genomics 2022-12-01 [PMID: 36777184] (FLOW, Human)

Seidel V, Hoffmann R, Braun A et al. Distribution and morphology of Clara cells in common marmosets (*Callithrix jacchus*). J Med Primatol. 2013-04-01 [PMID: 23473106]

Bu ML, Li MH, Feng M et al. Poly(I:C) Exacerbates Airway Goblet Cell Hyperplasia and Lung Inflammation in HDM-Exposed Balb/C Mice by YAP/FOXO1 Pathway International archives of allergy and immunology 2023-02-23 [PMID: 36822170]

Meyerholz DK, Stoltz DA, Namati E et al. Loss of cystic fibrosis transmembrane conductance regulator function produces abnormalities in tracheal development in neonatal pigs and young children. Am J Respir Crit Care Med 2010-11-01 [PMID: 20622026]

Meyerholz DK, Stoltz DA, Namati E et al. Loss of cystic fibrosis transmembrane conductance regulator function produces abnormalities in tracheal development in neonatal pigs and young children. Am J Respir Crit Care Med 2010-11-01 [PMID: 20622026]

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Products Related to NBP2-15196-0.1mg

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
H00004586-Q01-10ug	Recombinant Human MUC5AC GST (N-Term) Protein

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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