

# Product Datasheet

## MUC5AC Antibody (45M1) - Azide and BSA Free NBP2-32732-0.1mg

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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**NBP2-32732-0.1mg**

MUC5AC Antibody (45M1) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	45M1
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS

Product Description	
Description	1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-15196).  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, CyTOF-ready
Recommended Dilutions	Western Blot 0.5-1.0ug/ml, Flow Cytometry 0.5-1.0ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2ug/ml, Immunohistochemistry-Paraffin 0.5-1.0ug/ml, Immunohistochemistry-Frozen 0.5ug/ml, Dot Blot, Flow (Intracellular), CyTOF-ready



**Application Notes**

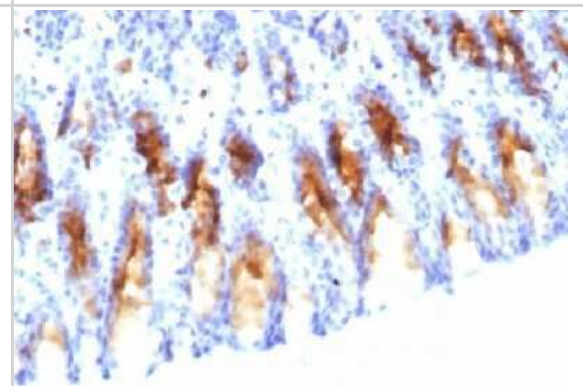
Use in Dot Blot reported in scientific literature (PMID: 31374872).  
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes.  
Optimal dilution for a specific application should be determined.

**Images**

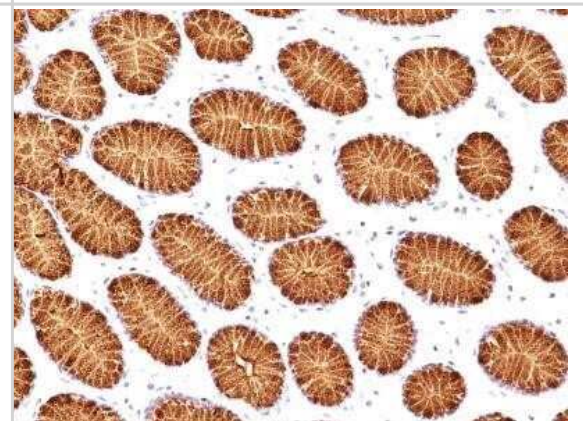
Western Blot: MUC5AC Antibody (45M1) - Azide and BSA Free [NBP2-32732] - AGS human gastric adenocarcinoma and KATO-III human gastric carcinoma cell line lysates. Image from verified customer review.



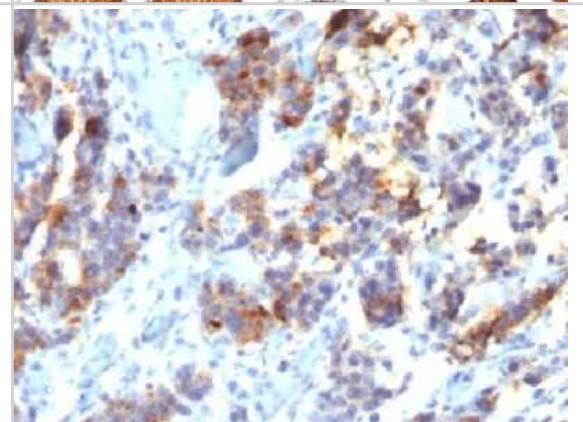
Immunohistochemistry-Paraffin: MUC5AC Antibody (45M1) - Azide and BSA Free [NBP2-32732] - Formalin-fixed, paraffin-embedded Rat Stomach stained with MUC5AC Monoclonal Antibody (45M1).



Immunohistochemistry-Paraffin: MUC5AC Antibody (45M1) - Azide and BSA Free [NBP2-32732] - Human stomach.



Immunohistochemistry-Paraffin: MUC5AC Antibody (45M1) - Azide and BSA Free [NBP2-32732] - Formalin-fixed, paraffin-embedded human Gastric Carcinoma stained with MUC5AC Monoclonal Antibody (45M1).



**Publications**

Castaneda DC, Jangra S, Yurieva M et al. Spatiotemporally organized immunomodulatory response to SARS-CoV-2 virus in primary human broncho-alveolar epithelia bioRxiv : the preprint server for biology 2023-03-31 [PMID: 37034597] (ICC/IF, Human)

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)

Gindele Ja Characterization of the molecular mechanisms underlying the pathophysiological differentiation of small airway epithelial cells in Chronic Obstructive Pulmonary Disease (COPD) Thesis 2021-01-01





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### **Products Related to NBP2-32732-0.1mg**

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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

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### **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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