

# Product Datasheet

## MUC1 Antibody (HMFG2) - Chimeric - Azide and BSA Free NBP2-62565

Unit Size: 0.2 mg

Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.

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Updated 2/24/2026 v.20.1

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**NBP2-62565**

MUC1 Antibody (HMFG2) - Chimeric - Azide and BSA Free

Product Information	
Unit Size	0.2 mg
Concentration	1 mg/ml
Storage	Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.
Clonality	Monoclonal
Clone	HMFG2
Preservative	0.02% Proclin 300
Isotype	IgG Lambda
Purity	Protein A purified
Buffer	PBS

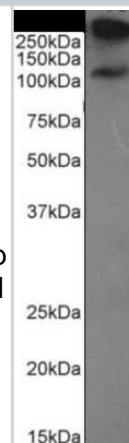
Product Description	
Description	Novus Biologicals Rabbit MUC1 Antibody (HMFG2) - Chimeric - Azide and BSA Free (NBP2-62565) is a recombinant monoclonal antibody validated for use in IHC, WB, ELISA, Flow and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	4582
Gene Symbol	MUC1
Species	Human
Specificity/Sensitivity	This antibody recognises MUC1, a tumor associated antigen which is expressed in >90% ovarian carcinomas. This antigen is a high molecular weight (M, 80,000-200,000) glycoprotein.
Immunogen	High-MW glycoprotein of the human milk fat globule.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot, Flow Cytometry, ELISA 1:100 - 1:2000, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin
Application Notes	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

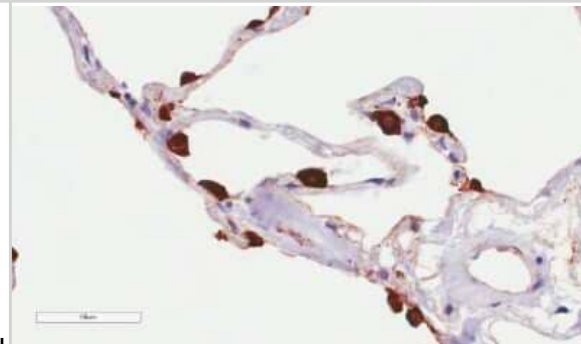


## Images

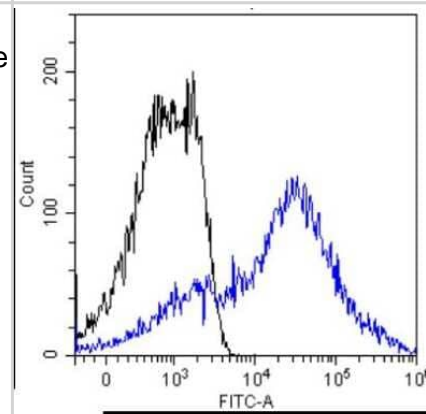
**Western Blot: MUC1 Antibody (HMFG2) - Chimeric [NBP2-62565] -** Western Blot using anti-MUC1 antibody HMFG2. MCF-7 cell lysate (35ug protein in RIPA buffer) were resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit version of HMFG2 (NBP2-62565) at 0.1 ug/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence. The predicted band size for unmodified MUC1 is 122.1kDa, though in breast cancer cell lines like MCF-7 MUC1 can be up to 90% glycosylated (c.f. Mueller et al. PMID: 10373415; T47D cells) and expected band sizes are ~250-300kDa. Thus the two bands likely represent processed (>250kDa) and unprocessed (~121kDa) populations of the protein. NBP2-62565 successfully detected human MUC1 in MCF-7 breast cancer cells.



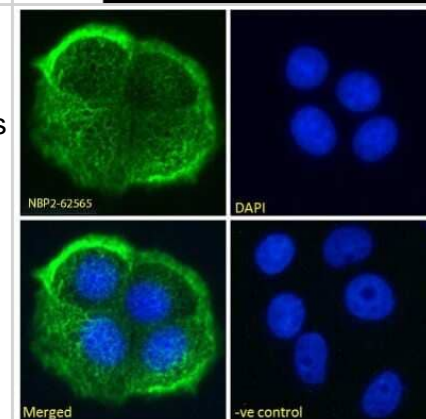
**Immunohistochemistry-Paraffin: MUC1 Antibody (HMFG2) - Chimeric [NBP2-62565] -** Immunohistochemical staining of human lung tissue using anti-MUC1 antibody. HMFG2 Anti-MUC1 (Mucin-1) staining of paraffin embedded human lung tissue using the rabbit-chimeric version of HMFG2 (NBP2-62565). Antigen retrieval was achieved by microwaving in citrate buffer (pH6), followed by blocking with protein block serum-free buffer. Primary antibody incubation with NBP2-62565 was carried out at 4 ug/ml for 30 minutes. Samples were then incubated with an anti-rabbit IgG HRP secondary antibody for 20 mins followed by DAB (3,3'-diaminobenzidine), and counter-staining with haematoxylin. Strong staining of type II pneumocytes may be observed. Recommended concentration, 1-2 ug/ml.



**Flow Cytometry: MUC1 Antibody (HMFG2) - Chimeric [NBP2-62565] -** Flow-cytometry using the anti-MUC1 antibody HMFG2. MCF-7 cells were stained with unimmunized rabbit IgG antibody (black line) or the rabbit-chimeric version of HMFG2 (NBP2-62565, blue line) at a concentration of 10 ug/ml for 30 mins at RT. After washing, bound antibody was detected using an anti-rabbit IgG JK (FITC-conjugate) antibody at 2 ug/ml and cells analyzed on a FACSCanto flow-cytometer.



**Immunofluorescence: MUC1 Antibody (HMFG2) - Chimeric [NBP2-62565] -** Immunofluorescence staining of fixed MCF-7 cells with anti-MUC1 antibody HMFG2. Immunofluorescence analysis of unpermeabilised paraformaldehyde fixed MCF-7 cells on Shi-fix coverslips stained with the chimeric rabbit version of HMFG2 (NBP2-62565) at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (1 ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom NBP2-62565, DAPI, merged channels and an isotype control. The isotype control was stained with an anti-Fluorescein antibody followed by Alexa Fluor 488 secondary antibody.





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### **Products Related to NBP2-62565**

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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]
H00004582-Q01-10ug	Recombinant Human MUC1 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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