Product Datasheet

fd/M13 bacteriophage Antibody - BSA Free
NB100-1633

Unit Size: 0.1 ml

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

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Publications: 8

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
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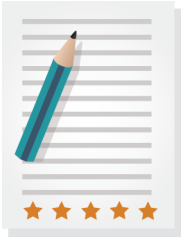
Updated 2/21/2025 v.20.1



NB100-1633

fd/M13 bacteriophage Antibody - BSA Free

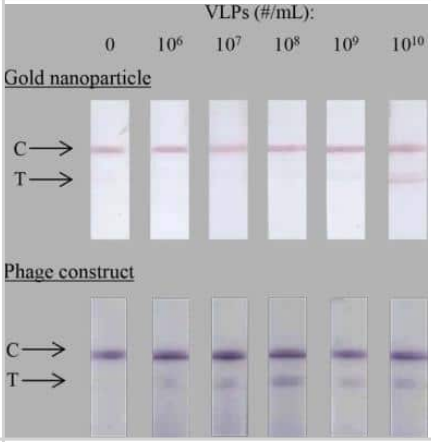
Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	IgG purified
Buffer	0.01 M phosphate buffered saline, pH 7.4

Product Description	
Host	Rabbit
Gene ID	927333
Gene Symbol	VIII
Species	Virus
Reactivity Notes	Cross-reacts with fd and M13 bacteriophages
Specificity/Sensitivity	The antibody binds specifically to phage coat proteins of fd phage or M13 phage.
Immunogen	Repeated injections with fd bacteriophage.

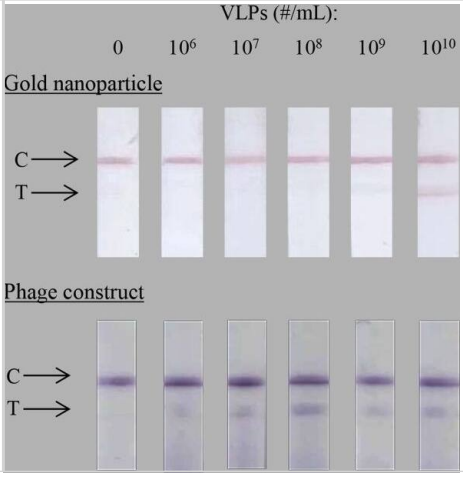
Product Application Details	
Applications	ELISA, Flow Cytometry, Lateral Flow Assay
Recommended Dilutions	Flow Cytometry, ELISA 1:1000 (indirect), Lateral Flow Assay
Application Notes	Use in FLOW reported in scientific literature (PMID: 27704069).

Images

Lateral Flow Assay: fd/M13 bacteriophage Antibody [NB100-1633] - Norwalk VLPs in 100 uL are detected using anti-Norwalk antibodies in the test line (T); gold nanoparticle (top row) and antibody-phage construct followed by HRP/anti-M13 conjugate (bottom row). Control line (C) consists of anti-mouse antibodies for the gold nanoparticle LFA and anti-M13 antibodies for the phage LFA. Nitrocellulose FF80HP was used as test membrane, Fusion 5 as sample pad and CF5 as absorbent pad. All images were equally gamma-corrected (gamma-correction factor = 0.45) to compensate for contrast lost in the overexposed, scanned images and better represent the naked-eye appearance of the raw strips. Image collected and cropped by CiteAb from the following publication (dx.plos.org/10.1371/journal.pone.0126571), licensed under a CC-BY license.



Western Blot: fd/M13 bacteriophage Antibody [NB100-1633] - Detection of Norwalk VLPs in lateral-flow assay (LFA).Norwalk VLPs in 100 µL are detected using anti-Norwalk antibodies in the test line (T); gold nanoparticle (top row) & antibody-phage construct followed by HRP/anti-M13 conjugate (bottom row). Control line (C) consists of anti-mouse antibodies for the gold nanoparticle LFA & anti-M13 antibodies for the phage LFA. Nitrocellulose FF80HP was used as test membrane, Fusion 5 as sample pad & CF5 as absorbent pad. All images were equally gamma-corrected (gamma-correction factor = 0.45) to compensate for contrast lost in the overexposed, scanned images & better represent the naked-eye appearance of the raw strips. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/25978622), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Wright, KM;DiNapoli, SR;Miller, MS;Aitana Azurmendi, P;Zhao, X;Yu, Z;Chakrabarti, M;Shi, W;Douglass, J;Hwang, MS;Hsiue, EH;Mog, BJ;Pearlman, AH;Paul, S;Konig, MF;Pardoll, DM;Bettegowda, C;Papadopoulos, N;Kinzler, KW;Vogelstein, B;Zhou, S;Gabelli, SB; Hydrophobic interactions dominate the recognition of a KRAS G12V neoantigen Nature communications 2023-08-21 [PMID: 37604828]

Hwang MS, Miller MS, Thirawatananond P et al. Structural engineering of chimeric antigen receptors targeting HLA-restricted neoantigens Nature communications 2021-09-06 [PMID: 34489470] (FLOW, ELISA)

Hwang MS, Mog BJ, Douglass J et al. Targeting loss of heterozygosity for cancer-specific immunotherapy Proceedings of the National Academy of Sciences of the United States of America 2021-03-23 [PMID: 33731480] (FLOW)

Hsiue EH, Wright KM, Douglass J et al. Targeting a neoantigen derived from a common TP53 mutation Science (New York, N.Y.) 2021-03-05 [PMID: 33649166]

Miller MS, Douglass J, Hwang MS et al. An engineered antibody fragment targeting mutant beta-catenin via Major Histocompatibility Complex I neoantigen presentation J. Biol. Chem. 2019-11-05 [PMID: 31690625] (FLOW, ELISA, Human)

Kim J BACTERIOPHAGE IMAGING IMMUNOASSAY FOR POINT OF CARE DIAGNOSTICS Dissertation 2016-08-01 (FLOW, Virus)

Kim J, Poling-Skutvik R, Trabuco Jr et al. Orientational binding modes of reporters in a viral-nanoparticle lateral flow assay. Analyst 2016-09-30 [PMID: 27704069] (FLOW)

Hagstrom AE, Garvey G, Paterson AS et al. Sensitive detection of norovirus using phage nanoparticle reporters in lateral-flow assay. PLoS One 2015-01-01 [PMID: 25978622] (Virus)

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Products Related to NB100-1633

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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