Product Datasheet

West Nile Virus MP Antibody - BSA Free
NB100-56743

Unit Size: 0.1 mg

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

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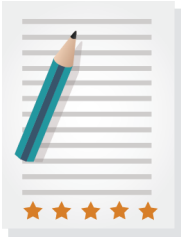


NB100-56743

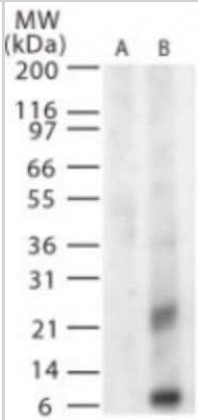
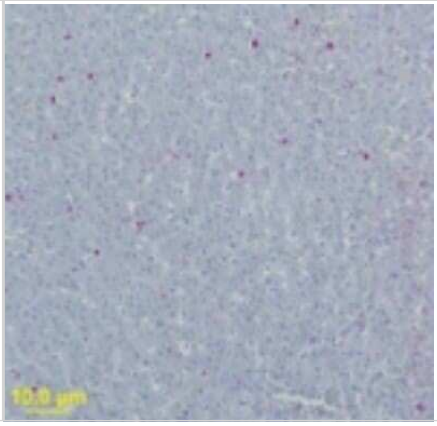
West Nile Virus MP Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS

Product Description	
Host	Rabbit
Species	Virus
Reactivity Notes	West Nile Virus glycoprotein M (Genbank accession no. NP_776013).
Immunogen	A synthetic peptide corresponding to amino acid residues 8-27 (GESTLANKKGAWLDSTKATR) of West Nile Virus MP. Genbank accession no. NP_776013.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 0.5-2 ug/ml, Immunohistochemistry 1:20-1:1000, Immunocytochemistry/ Immunofluorescence 1:20-1:1000. Use reported in scientific literature (Tan et al (2009)), Immunoprecipitation reported in scientific literature (Tan et al (2009)), Immunohistochemistry-Paraffin 1.0 ug/ ml

Images

Western Blot: West Nile Virus MP Antibody - BSA Free [NB100-56743] - Analysis of West Nile Virus West Nile Virus MP in (A) untransfected and (B) transfected mouse melanoma cells using NB100-56743 at 1 ug/ml.	
Immunohistochemistry-Paraffin: West Nile Virus MP Antibody - BSA Free [NB100-56743] - Analysis of West Nile Virus MP in bird liver using this antibody at 1 ug/ml, incubated for 30 minutes. A Ventana brand second step antibody conjugated to biotin was applied followed with streptavidin-AKP. The substrate was Fast Red chromagen. The antigen retrieval method used to obtain staining: Ventana Protease 2 for three minutes at room temperature with a Parafilm coverslip. (using an autostainer which keeps residual fluid on the slides during every step, so the final concentration is approximately 2.5 times more dilute). Image and protocol used to generate this image are courtesy of Angela Ellis, University of Georgia College of Veterinary Medicine.	

Publications

Sasaki M, Anindita PD, Phongphaew W et al. Development of a rapid and quantitative method for the analysis of viral entry and release using a NanoLuc luciferase complementation assay. Virus Res. 2017-10-23 [PMID: 29074234] (WB, Human)

Boylan BT, Moreira FR, Carlson TW, Bernard KA. Mosquito cell-derived West Nile virus replicon particles mimic arbovirus inoculum and have reduced spread in mice. PLoS Negl Trop Dis. 2017-02-01 [PMID: 28187142] (WB, Mouse)

Zhang R, Miner JJ, Gorman MJ et al. A CRISPR screen defines a signal peptide processing pathway required by flaviviruses Nature. 2016-07-07 [PMID: 27383988] (WB, Hamster, Human, Monkey)

Merino-Ramos T, Blazquez AB, Escribano-Romero E et al. Protection of a Single Dose West Nile Virus Recombinant Subviral Particle Vaccine against Lineage 1 or 2 Strains and Analysis of the Cross-Reactivity with Usutu Virus. PLoS ONE. 2014-09-18 [PMID: 25229345] (WB, Virus)

Details:
WNVM antibody used for WB analysis of WNV proteins released to the culture medium from HeLa or 293T cells transfected with plasmid pcDNA-WNV, and a control lane containing purified WNV from WNV-infected Vero cells was included in th assay.

Martin-Acebes MA, Merino-Ramos T, Blazquez AB et al. The Composition of West Nile virus Lipid Envelope Unveils a Role of Sphingolipid Metabolism on Flavivirus Biogenesis. J Virol. 2014-08-13 [PMID: 25122799] (WB, Virus)

Details:
WNVM antibody used for WB on lysates of HeLa or HeLa3-WNV cells. FIG 2E shows two bands - one band compatible with prM protein and the other band compatible with mature M protein (about 20 and 6 kDa, respectively).

Dowd KA, Mukherjee S, Kuhn RJ, Pierson TC. Combined effects of the structural heterogeneity and dynamics of flaviviruses on antibody recognition. J Virol. 2014-07-30 [PMID: 25078693] (WB, Virus)

Details:
For the evaluation of the efficiency of prM cleavage in WNV RVP preparations, WNVM Antibody used for WB at 1:250 dilution on aliquots of WNV-prM+ and WNV-furin RVPs that were partially purified by centrifugation through a 20% sucrose cushion followed by lysis in buffer containing 1% Triton, 100 mM Tris, 2 M NaCl, and 100 mM EDTA.

Makino Y, Suzuki T, Hasebe R et al. Establishment of tracking system for West Nile virus entry and evidence of microtubule involvement in particle transport. J Virol Methods 2014-01-01 [PMID: 24140187] (WB, Human)

Tan TT, Bhuvanakantham R, Li J et al. Tyrosine 78 of premembrane protein is essential for assembly of West Nile virus. J Gen Virol. 2009-05-01 [PMID: 19264649] (WB)

Details:
BHk-21 cells mock-infected or infected with WNV, or co-transfected with WNV M and E plasmids were used with the IMG-5099A WNV M pAb in the following techniques and figures: 1. IF (Figs 2, 6) 2. WB (Figs 4a, 4b, 8a, 8c (iii)

Nelson S, Jost CA, Xu Q et al. Maturation of West Nile virus modulates sensitivity to antibody-mediated neutralization. PLoS Pathog. 2008-05-09 [PMID: 18464894]

Throsby M, Geuijen C, Goudsmit J et al. Isolation and characterization of human monoclonal antibodies from individuals infected with West Nile Virus. J Virol. 2006-07-01 [PMID: 16809304] (WB)

Details:
WB: Fig 4b

Lin TY, Dowd KA, Manhart CJ et al. A novel approach for the rapid mutagenesis and directed evolution of the structural genes of west nile virus. J Virol. 2012-04-01 [PMID: 22258236] (WB)

Details:
WB: Wild type and mutant (N15A) West Nile Virus harvested from infected BHk-21 cells, Fig 4F.

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Products Related to NB100-56743

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB100-56743PEP	West Nile Virus MP Antibody Blocking Peptide

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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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