

Product Datasheet

NDM-1 Antibody - BSA Free

NBP1-77688

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Updated 10/23/2024 v.20.1

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NBP1-77688

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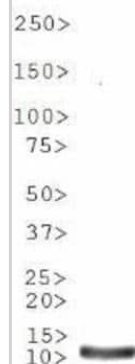
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS, 30% Glycerol

Product Description	
Host	Rabbit
Species	Mouse, Bacteria, E. coli
Reactivity Notes	E. coli reactivity reported in scientific literature (PMID: 30323356). Use in Mouse reported in scientific literature (PMID:32014252).
Immunogen	A synthetic peptide made to a C-terminal region of the E. coli bla-NDM-1 protein (within residues 100-158). [NCBI BAJ10873]

Product Application Details	
Applications	Western Blot
Recommended Dilutions	Western Blot 1:1000
Application Notes	In Western blot a band is seen ~12 kDa in recombinant protein. Note: This enzyme may form multimers.

Images

Western Blot: NDM-1 Antibody [NBP1-77688] - Analysis of NDM1 in partial recombinant NDM1 protein.



Publications

Dongyang Ye, Xiaowei Li, Liang Zhao, Saiwa Liu, Xixi Jia, Zhinan Wang, Jingjing Du, Lirui Ge, Jianzhong Shen, Xi Xia Oxidized glutathione reverts carbapenem resistance in bla NDM-1 -carrying Escherichia coli EMBO Molecular Medicine 2024-04-02 [PMID: 38565805]

Tang B, Yang A, Liu P et al. Outer Membrane Vesicles Transmitting blaNDM-1 Mediate the Emergence of Carbapenem-Resistant Hypervirulent Klebsiella pneumoniae Antimicrobial agents and chemotherapy 2023-05-17 [PMID: 37052502] (WB)

Details:

Dilution: 1:1000

Wu S, Yu T, Zhou R et al. Adjuvant-like biomimetic nanovesicles combat New Delhi metallo-beta-lactamases (NDMs) producing superbugs infections Nano Today 2021-06-01

Sun H, Zhang Q, Wang R et al. Resensitizing carbapenem- and colistin-resistant bacteria to antibiotics using auranofin Nat Commun 2020-10-16 [PMID: 33067430]

Zalucki Y, Jen F, Pegg C et al. Evolution for improved secretion and fitness may be the selective pressures leading to the emergence of two NDM alleles Biochemical and Biophysical Research Communications 2020-01-01 [PMID: 32014252] (WB, Mouse)

Kong HK, Pan Q, Lo WU et al. Fine-tuning carbapenem resistance by reducing porin permeability of bacteria activated in the selection process of conjugation Sci Rep 2018-10-15 [PMID: 30323356] (WB, E. coli)

Wang R, Lai TP, Gao P et al. Bismuth antimicrobial drugs serve as broad-spectrum metallo-b-lactamase inhibitors Nat Commun 2018-01-30 [PMID: 29382822] (WB, Bacteria)



Procedures

Western Blot protocol specific for NDM1 antibody (NBP1-77688)

NDM-1 Antibody:

Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 40 ug of total protein per lane.
2. Transfer proteins to membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot.
5. Block the membrane using standard blocking buffer for at least 1 hour.
6. Wash the membrane in wash buffer three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate 1 hour at room temperature.
8. Wash the membrane in wash buffer three times for 10 minutes each.
9. Apply the diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer three times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions.

*Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%.





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Products Related to NBP1-77688

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-77688B	NDM-1 Antibody [Biotin]

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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