

# Product Datasheet

## DDX1 Antibody (3E5E2) - BSA Free NBP2-61745

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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**NBP2-61745**

DDX1 Antibody (3E5E2) - BSA Free

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	Monoclonal
Clone	3E5E2
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	82.4 kDa

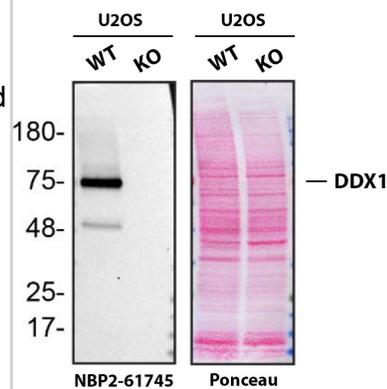
Product Description	
Description	Novus Biologicals Knockout (KO) Validated Mouse DDX1 Antibody (3E5E2) - BSA Free (NBP2-61745) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow, ICC/IF and IP. Anti-DDX1 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	1653
Gene Symbol	DDX1
Species	Human, Mouse
Immunogen	Purified recombinant fragment of human DDX1 (AA: 642-740) expressed in E. Coli.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Knockout Validated
Recommended Dilutions	Western Blot 1:500-1:2000, Flow Cytometry 1:200-1:400, ELISA 1:10000, Immunohistochemistry 1:200-1:1000, Immunocytochemistry/ Immunofluorescence 1:200-1:1000, Immunoprecipitation, Immunohistochemistry-Paraffin 1:200-1:1000, Knockout Validated Validated for Knockout from YCharOS Inc. (ycharos.com)
Application Notes	Use in Immunoprecipitation reported in scientific literature (PMID:32755435)

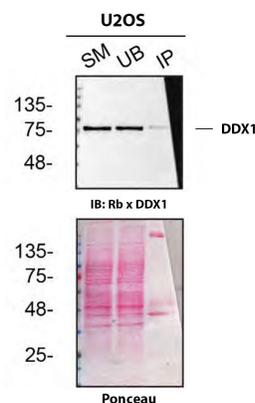


## Images

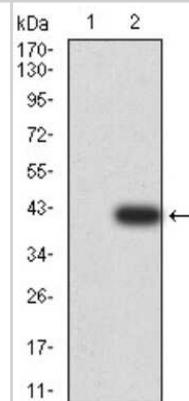
Western blot shows lysates of U2OS human osteosarcoma parental cell line and DDX1 knockout U2OS cell line (KO). Nitrocellulose membrane was probed with DDX1 Antibody (3E5E2) - BSA Free (Catalog # NBP2-61745) followed by HRP-conjugated secondary antibody. A specific band was detected for DDX1 at approximately 82.4 kDa (as indicated) in the parental U2OS cell line, but is not detectable in knockout U2OS cell line. Primary antibody dilution used: 1/500. The Ponceau stained transfer of the blot is shown. This experiment was conducted under reducing conditions. Image, protocol, and testing courtesy of YCharOS Inc. See [ycharos.com](http://ycharos.com) for additional details.



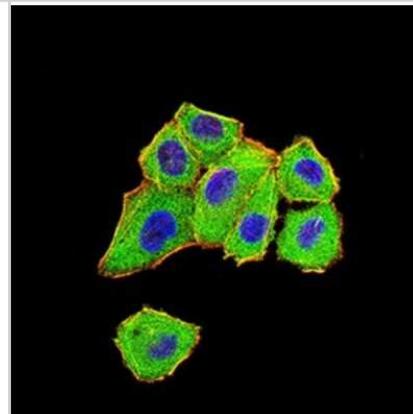
U2OS human osteosarcoma cell line lysates were prepared and immunoprecipitation was performed using 2.0  $\mu$ g of DDX1 Antibody (3E5E2) - BSA Free (Catalog # NBP2-61745) pre-coupled to Dynabeads Protein G. Immunoprecipitated DDX1 was detected in Western Blot with a rabbit DDX1 antibody used at 1/1000. The Ponceau stained transfer of the blot is shown. SM=4% starting material; UB=4% unbound fraction; IP=immunoprecipitate; HC=antibody heavy chain. Image, protocol and testing courtesy of YCharOS Inc. ([ycharos.com](http://ycharos.com)).



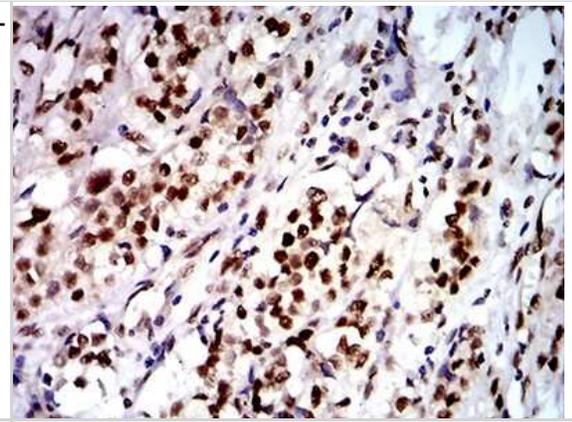
Western Blot: DDX1 Antibody (3E5E2) [NBP2-61745] - Analysis using DDX1 mAb against HEK293 (1) and DDX1 (AA: 642-740)-hlgGfC transfected HEK293 (2) cell lysate.



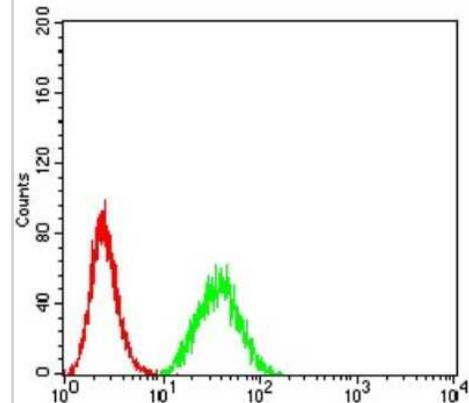
Immunocytochemistry/Immunofluorescence: DDX1 Antibody (3E5E2) [NBP2-61745] - Analysis of HeLa cells using DDX1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Goat anti-Mouse IgG (H+L) DyLight 488 secondary antibody was used.



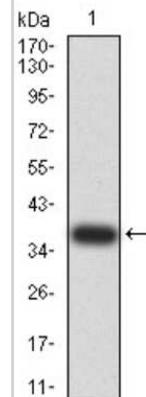
Immunohistochemistry-Paraffin: DDX1 Antibody (3E5E2) [NBP2-61745] - Analysis of bladder cancer tissues using DDX1 mouse mAb with DAB staining.



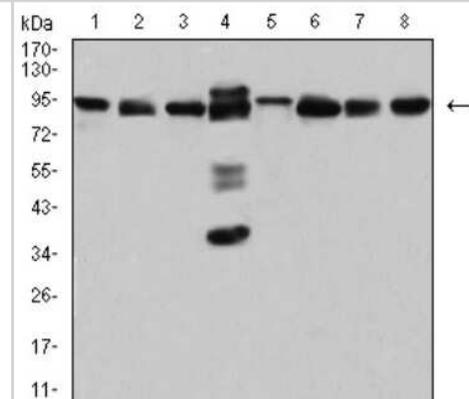
Flow Cytometry: DDX1 Antibody (3E5E2) [NBP2-61745] - Analysis of Hela cells using DDX1 mouse mAb (green) and negative control (red).



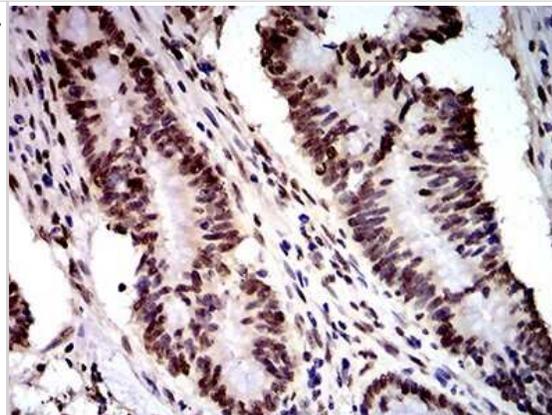
Western Blot: DDX1 Antibody (3E5E2) [NBP2-61745] - Analysis using DDX1 mAb against human DDX1 (AA: 642-740) recombinant protein. (Expected MW is 37 kDa)



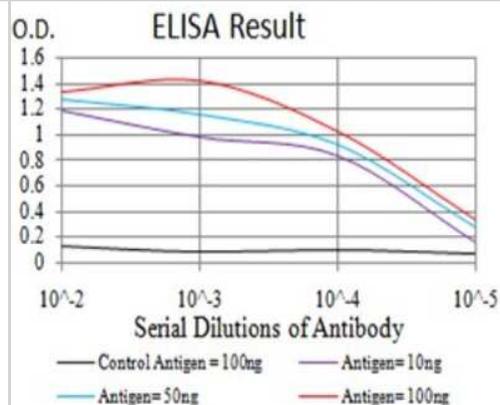
Western Blot: DDX1 Antibody (3E5E2) [NBP2-61745] - Analysis using DDX1 mouse mAb against Hela (1), MCF-7 (2), A431 (3), PC-3 (4), NIH/3T3 (5), Jurkat (6), U251 (7), and HEK293 (8) cell lysate.



Immunohistochemistry-Paraffin: DDX1 Antibody (3E5E2) [NBP2-61745] - Analysis of colon cancer tissues using DDX1 mouse mAb with DAB staining.



ELISA: DDX1 Antibody (3E5E2) [NBP2-61745] - Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)



## Publications

Lu S, Ye Q, Singh D, et al. The SARS-CoV-2 nucleocapsid phosphoprotein forms mutually exclusive condensates with RNA and the membrane-associated M protein Nature communications 2021-01-21 [PMID: 33479198] (ICC/IF, Human)

Sharma M, Wentz SR Nucleocytoplasmic shuttling of Gle1 impacts DDX1 at transcription termination sites Mol. Biol. Cell 2020-08-05 [PMID: 32755435] (IP, ICC/IF, WB, Human)



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### **Products Related to NBP2-61745**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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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