Product Datasheet

DDX6 Antibody - BSA Free
NB200-192

Unit Size: 100 ul

Store at 4C. Do not freeze.

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Publications: 27

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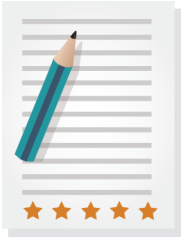


NB200-192

DDX6 Antibody - BSA Free

Product Information

Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

Product Description

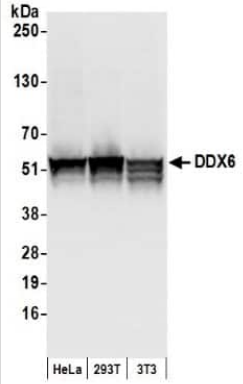
Description	Novus Biologicals Rabbit DDX6 Antibody - BSA Free (NB200-192) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-DDX6 Antibody: Cited in 27 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	1656
Gene Symbol	DDX6
Species	Human, Mouse
Immunogen	The immunogen recognized by this antibody maps to a region between residues 425 and the C-terminus (residue 483) of human DEAD (Asp-Glu-Ala-Asp) box polypeptide 6 using the numbering given Swiss-Prot entry P26196 (GeneID 1656).

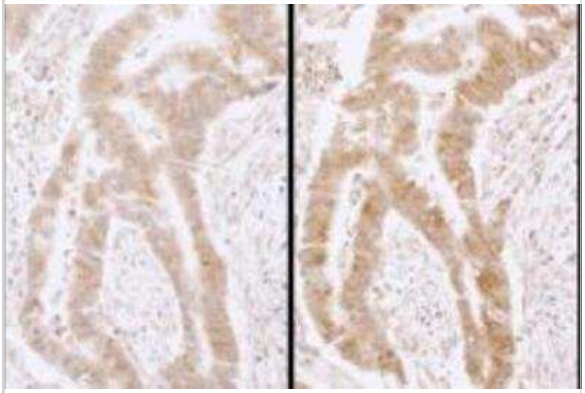
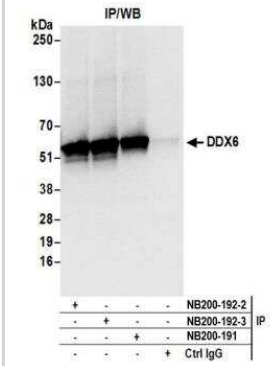
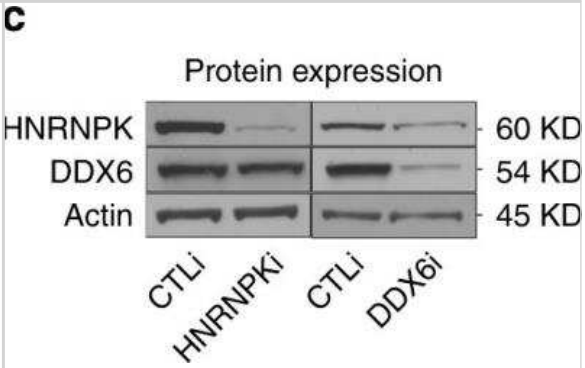
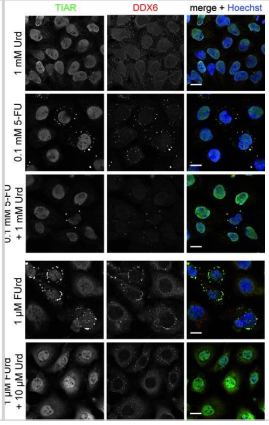
Product Application Details

Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 1:2000 - 1:10000, Immunohistochemistry 1:1000- 1:5000, Immunocytochemistry/ Immunofluorescence 1:500 - 1:2-500, Immunoprecipitation 2-10 ug/mg lysate, Immunohistochemistry-Paraffin 1:1000-1:5000, Knockdown Validated
Application Notes	Epitope retrieval with Tris-EDTA pH9.0 is recommended for FFPE tissue sections. ICC/IF reactivity reported in (PMID: 24728989).

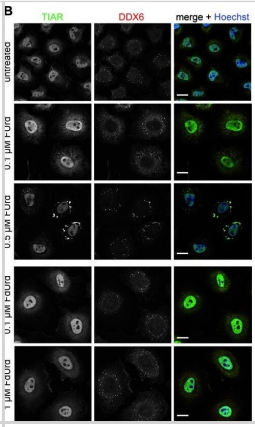
Images

Western Blot: DDX6 Antibody [NB200-192] - Detection of Human and Mouse DDX6 by Western Blot. Samples: Whole cell lysate (50 ug) from HeLa, 293T, and mouse NIH3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-DDX6 antibody NB200-192 used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 1 second.

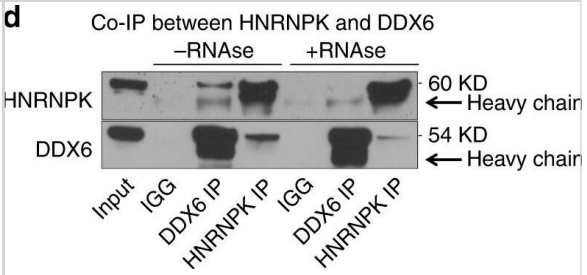


Immunohistochemistry-Paraffin: DDX6 Antibody [NB200-192] - FFPE section of human colon carcinoma. Antibody: Affinity purified rabbit anti-DDX6 (left) and Lot 3 (right) used at a dilution of 1:1,000 (1ug/ml). Detection: DAB. Counterstain: IHC Hematoxylin (blue).	
Immunoprecipitation: DDX6 Antibody [NB200-192] - Detection of human DDX6 by western blot of immunoprecipitates. Samples: Whole cell lysate (0.5 or 1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-DDX6 antibody NB200-192 (lot NB200-192-3) used for IP at 6 ug per reaction. DDX6 was also immunoprecipitated by a previous lot of this antibody (NB200-192-2) and rabbit anti-DDX6 antibody NB200-191. For blotting immunoprecipitated DDX6, NB200-192 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 1 second.	
Western Blot: DDX6 Antibody [NB200-192] - Western blot analysis of HNRNPK and DDX6 protein levels upon HNRNPK or DDX6 knockdown. Image collected and cropped by CiteAb from the following publication (nature.com/articles/s41467-019-12238-x), licensed under a CC-BY license.	
Immunocytochemistry/ Immunofluorescence: DDX6 Antibody [NB200-192] - 5-FU-induced SG assembly is rescued by interfering with RNA incorporation. HeLa cells were treated with 1 mM Urd, 0.1 mM 5-FU or both, as well as with 1 µM FUrd or a combination of 1 µM FUrd & 10 µM Urd. Localization of SG marker protein TIAR (green) & SG/P-body marker protein DDX6 (red) was investigated. Nuclei were stained with Hoechst. Scale bars represent 20 µm. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/24728989), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Immunocytochemistry/ Immunofluorescence: DDX6 Antibody [NB200-192] - 5-FU-induced SG assembly depends on RNA incorporation. (A) Schematic representation of the cellular 5-FU metabolism leading to incorporation of the different metabolites into RNA or DNA. (B) HeLa cells were treated with two concentrations of the 5-FU metabolites FUrd or FdUrd for 72 h. SG marker protein TIAR (green) & SG/P-body marker protein DDX6 (red) were visualized. Nuclei were stained with Hoechst. Scale bars represent 20 µm. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/24728989), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: DDX6 Antibody [NB200-192] - HNRNPK is necessary for DDX6 to bind differentiation associated mRNAs. a RNA IP was performed in CTLi & HNRNPKi cells using a DDX6 antibody. RT-QPCR was used to determine the levels of binding between DDX6 & differentiation associated mRNAs in the presence or absence of HNRNPK. IGG IPs in CTLi & HNRNPKi cells were used as specificity controls. Binding was calculated as a percent of input. b RNA IP was performed in CTLi & DDX6i cells using a HNRNPK antibody. RT-QPCR was used to determine the levels of binding between HNRNPK & differentiation associated mRNAs in the presence or absence of DDX6. IGG IPs in CTLi & DDX6i cells were used as specificity controls. n = 4. c Western blot analysis of HNRNPK & DDX6 protein levels upon HNRNPK or DDX6 knockdown. d Immunoprecipitations (IPs) were performed using either an HNRNPK or DDX6 antibody or IGG & Western blotted for HNRNPK or DDX6 protein expression. IPs were performed +/− RNase A. Five percent of the cell lysate was used as input. Representative blots are shown. n = 3 independent experiments performed for Fig. 3 unless otherwise indicated. All error bars = SD. ****p < 0.0001, ***p < 0.001 (2 way ANOVA followed by Tukey's multiple comparison test for a, b) Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31519929), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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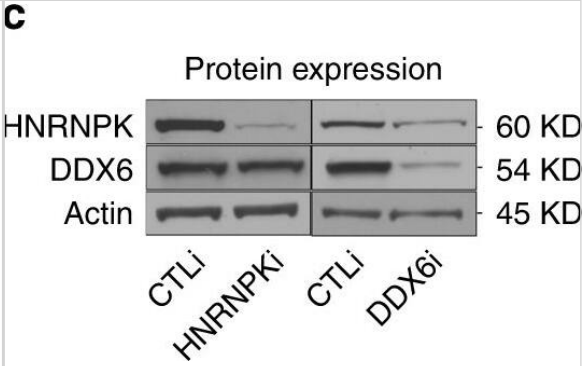

Publications

Safieddine A, Benassy MN, Bonte T, Slimani F et Al. Cell-cycle-dependent mRNA localization in P-bodies Mol Cell 2024-10-05 [PMID: 39368464]

Vukovic I, Barnada SM, Ruffin JW et Al. Non-redundant roles for the human mRNA decapping cofactor paralogs DCP1a and DCP1b Life Sci Alliance 2024-09-10 [PMID: 39256052]

Iyer DP, Moyon L, Wittler L et Al. Combinatorial microRNA activity is essential for the transition of pluripotent cells from proliferation into dormancy Genome Res 2024-05-15 [PMID: 38719471]

Perez-Perri JI, Ferring-Appel D, Huppertz I et al. The RNA-binding protein landscapes differ between mammalian organs and cultured cells Nature communications 2023-04-12 [PMID: 37045843] (PLA, Mouse)

Zanotti S, Vanhauwaert S, Van Neste C, et al. MYCN-induced nucleolar stress drives an early senescence-like transcriptional program in hTERT-immortalized RPE cells Sci Rep 2021-07-15 [PMID: 34262099]

Cochard, A;Garcia-Jove Navarro, M;Piroska, L;Kashida, S;Kress, M;Weil, D;Gueroui, Z; RNA at the surface of phase-separated condensates impacts their size and number Biophysical journal [PMID: 35364105]

Choksupmanee O, Tangkijthavorn W, Hodge K et al. Specific Interaction of DDX6 with an RNA Hairpin in the 3'-UTR of the Dengue Genome Mediates G1 Phase Arrest Journal of Virology 2021-06-16 [PMID: 34132569]

Furtado GV, Yang J, Wu D et al. FOXO1 controls protein synthesis and transcript abundance of mutant polyglutamine proteins, preventing protein aggregation Human molecular genetics 2021-04-02 [PMID: 33822053] (ICC/IF, Mouse)

Damodaran AP, Courtheoux T, Watrin E, Prigent C Alteration of SC35 localization by transfection reagents Biochim Biophys Acta Mol Cell Res 2020-01-15 [PMID: 31953060] (ICC/IF, Human)

Di Stefano B, Luo EC, Haggerty C et al. The RNA Helicase DDX6 Controls Cellular Plasticity by Modulating P-Body Homeostasis Cell Stem Cell 2019-09-27 [PMID: 31588046] (WB, ICC/IF, IP, KD, Mouse, Human)

Li J, Chen Y, Xu X et al. HNRNPK maintains epidermal progenitor function through transcription of proliferation genes and degrading differentiation promoting mRNAs Nat Commun 2019-09-13 [PMID: 31519929] (IP, WB, KD, Human)

Kaehler C, Isensee J, Hucho T et al. 5-Fluorouracil affects assembly of stress granules based on RNA incorporation. Nucleic Acids Res. 2014-04-11 [PMID: 24728989] (ICC/IF, Human)

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Products Related to NB200-192

NBL1-09810	DDX6 Overexpression Lysate
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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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