

Product Datasheet

DDX6 Antibody NB200-191

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NB200-191**DDX6 Antibody****Product Information**

Unit Size	0.1 ml
Concentration	0.2 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	TBS, 0.1% BSA

Product Description

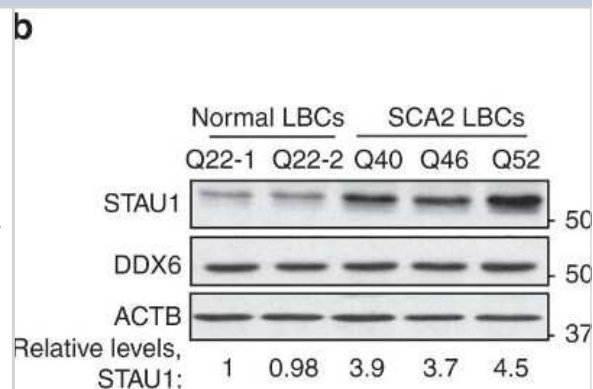
Description	Novus Biologicals Rabbit DDX6 Antibody (NB200-191) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-DDX6 Antibody: Cited in 42 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	1656
Gene Symbol	DDX6
Species	Human, Mouse, Hamster
Reactivity Notes	Hamster reactivity reported from a verified customer review.
Immunogen	The immunogen recognized by NB200-191 maps to a region between residues 1 and 50 of human DEAD (Asp-Glu-Ala-Asp) box polypeptide 6 using the numbering given Swiss-Prot entry P26196 (GeneID 1656).

Product Application Details

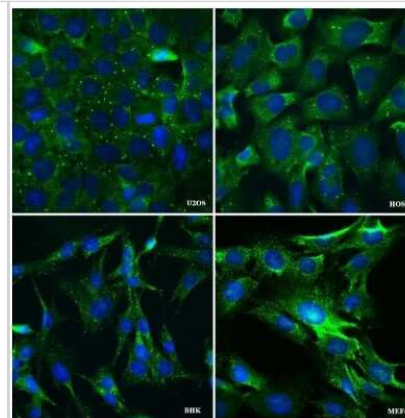
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:5000-1:15000, Immunohistochemistry 1:100-1:500, Immunocytochemistry/Immunofluorescence, Immunoprecipitation 2-5 ug/mg lysate, Immunohistochemistry-Paraffin 1:100-1:500
Application Notes	ICC/IF was reported in scientific literature (PMID: 25800057) and a verified customer review. Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use. Epitope retrieval with Tris-EDTA pH 9.0 is recommended for FFPE tissue sections.

Images

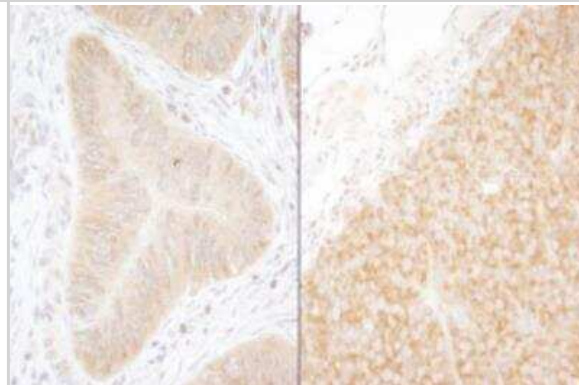
Western Blot: DDX6 Antibody [NB200-191] - Western blot analysis of LBCs show increased Staufen (STAU1) (NBP1-33202) levels compared with normal controls. DDX6 (NB200-191) levels are unchanged. HD and SCA3 patient (polyQ expanded) FBs were used as additional controls. Four normal and five SCA2 FBs, and two normal and three SCA2 LBCs were used. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30194296/>) licensed under a CC-BY license.



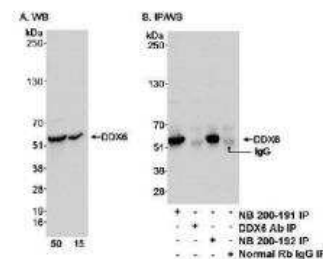
Immunocytochemistry/Immunofluorescence: DDX6 Antibody [NB200-191] - In normal condition, cells were fixed and stained for DDX6, that usually punctuate in process bodies (PBs). Primary Antibody rabbit-anti-DDX6 diluted 1:1000. Image submitted by a verified customer review.



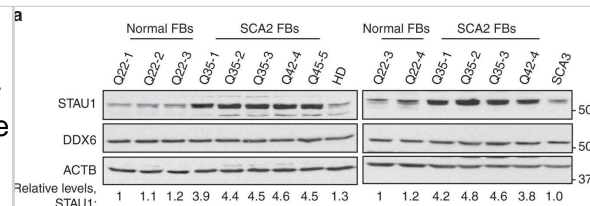
Immunohistochemistry-Paraffin: DDX6 Antibody [NB200-191] - Section of human colon carcinoma (left) and mouse renal cell carcinoma (right). Antibody: Affinity purified rabbit anti-DDX6 used at a dilution of 1:200 (1ug/ml). Detection: DAB.



Immunoprecipitation: DDX6 Antibody [NB200-191] - Detection of human DDX6 by Western Blot and Immunoprecipitation. Samples: Whole cell lysate (15 and 50 ug) from HeLa cells. Antibodies: Affinity purified rabbit anti-DDX6 antibody NB200-191 used at 0.04 ug/ml for WB (A and B) and at 3 ug/mg lysate for IP. DDX6 was also immunoprecipitated using rabbit anti-DDX6 antibody NB200-192, but not with 'DDX6 Ab', which is to another epitope from DDX6. Normal rabbit IgG was used as a negative control. Detection: Chemiluminescence with an exposure time of 1 second (A & B).



Western Blot: DDX6 Antibody [NB200-191] - Staufen1 protein but not mRNA steady-state levels are increased in neurodegenerative disease cells & tissues. Western blot analysis of SCA2- FBs (a) & LBCs (b) show increased STAU1 levels compared with normal controls. DDX6 levels are unchanged. HD & SCA3 patient (polyQ expanded) FBs were used as additional controls. Four normal & five SCA2 FBs, & two normal & three SCA2 LBCs were used. c, d Western blot analyses of ATXN2Q127 (c) & BAC-Q72 (d) mouse cerebellar extracts (24 weeks of age) showing increased Stau1 levels compared with wild-type or BAC-Q22 controls (n = 2–3 animals per group). e Western blot of FB extracts from an ALS patient with the TDP-43G298S mutation show increased STAU1 levels. β -Actin was used as loading control & representative blots of three independent experiments are shown. f–h STAU1 RNA levels are unaltered in SCA2 & ALS cells & SCA2 mice. qRT-PCR analyses of STAU1 mRNA in SCA2 FBs & ALS FB with TDP-43G298S mutation (f) or SCA2 LBCs (g). h qRT-PCR analyses of cerebellar RNAs from ATXN2Q127 & BAC-Q72 mice compared to wild-type littermates (24 weeks of age; n = animals per group). Gene expression levels were normalized to Actb Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30194296>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Venkataramanan S, Gadek M, Calviello L et al. DDX3X and DDX3Y are redundant in protein synthesis RNA 2021-12-01 [PMID: 34535544]

Vladimir Majerciak, Tongqing Zhou, Michael J Kruhlak, Zhi-Ming Zheng RNA helicase DDX6 and scaffold protein GW182 in P-bodies promote biogenesis of stress granules Nucleic Acids Research 2023-09-22 [PMID: 37427791]

Heim A, Niedermeier ML, Stengel F, Mayer TU The translation regulator Zar1l controls timing of meiosis in Xenopus oocytes Development (Cambridge, England) 2022-11-01 [PMID: 36278895]

Mehravar M, Kumar Y, Olshansky M et al. MOV10 facilitates messenger RNA decay in an N6-methyladenosine (m6A) dependent manner to maintain the mouse embryonic stem cells state bioRxiv 2021-08-12

Sung CC, Poll B, Lin SH et al. Early Molecular Events Mediating Loss of Aquaporin-2 during Ureteral Obstruction in Rat Journal of the American Society of Nephrology : JASN 2022-08-02 [PMID: 35918145] (IHC-P, Rat)

Details:
Dilutions: 1:500

Hallacli E, Kayatekin C, Nazeen S et al. The Parkinson's disease protein alpha-synuclein is a modulator of processing bodies and mRNA stability Cell 2022-06-09 [PMID: 35688132] (ICC/IF, WB, Human)

Shah A, Bhandari R IP6K1 upregulates the formation of processing bodies by influencing protein-protein interactions on the mRNA cap Journal of cell science 2021-11-29 [PMID: 34841428]

Somasekharan SP, Gleave M SARS-CoV-2 nucleocapsid protein interacts with immunoregulators and stress granules and phase separates to form liquid droplets FEBS letters 2021-11-15 [PMID: 34780058] (ICC/IF, Human)

Rink MR, Baptista MAP, Flomm FJ Et al. Concatemeric Broccoli reduces mRNA stability and induces aggregates PloS one 2021-08-04 [PMID: 34347781] (ICC/IF)

Shah A, Bhandari R IP6K1 upregulates the formation of processing bodies by promoting proteome remodeling on the mRNA cap bioRxiv 2020-07-14 [PMID: 34841428] (WB, ICC/IF, Human)

Cougoux A, Drummond RA, Fellmeth M, et al. GC content shapes mRNA storage and decay in human cells Elife 2019-12-19 [PMID: 31855182] (WB, ICC/IF, Human)

Sharma NR, Majerciak V, Kruhlak MJ et al. KSHV RNA-binding protein ORF57 inhibits P-body formation to promote viral multiplication by interaction with Ago2 and GW182 Nucleic Acids Res. 2019-08-10 [PMID: 31400113] (WB, Human)

More publications at <http://www.novusbio.com/NB200-191>





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Products Related to NB200-191

NBL1-09810	DDX6 Overexpression Lysate
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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