

Product Datasheet

DDX21 Antibody - BSA Free NBP1-83310

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 2/21/2025 v.20.1

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NBP1-83310

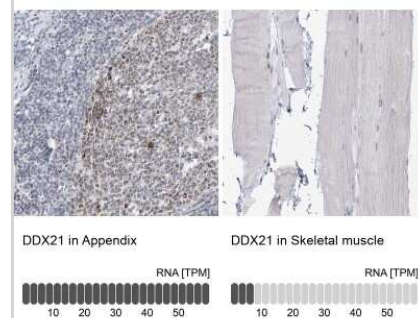
DDX21 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Product Description	
Host	Rabbit
Gene ID	9188
Gene Symbol	DDX21
Species	Human, Mouse, Zebrafish
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 31128943). Use in Zebrafish reported in scientific literature (PMID:32231306).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: KPKSDKTEEIAEEEEETVFPKAKQVKKKAEPSEVDMNSPKSKKAKKKEEPSQNDI SPKTKSLRKKKEPIEKVV
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, In vitro assay, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:500 - 1:1000, In vitro assay Reported in scientific literature (PMID:19729515), Chromatin Immunoprecipitation (ChIP) Reported in scientific literature (PMID 25470060)
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

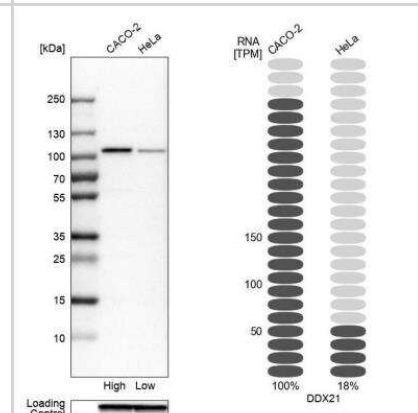


Images

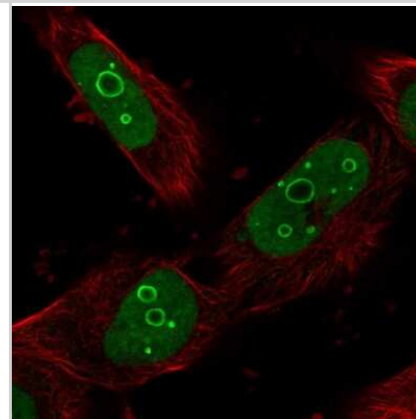
Immunohistochemistry-Paraffin: DDX21 Antibody [NBP1-83310] - Analysis in human appendix and skeletal muscle tissues using NBP1-83310 antibody. Corresponding DDX21 RNA-seq data are presented for the same tissues.



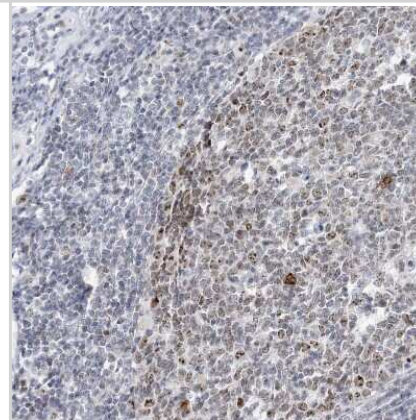
Western Blot: DDX21 Antibody [NBP1-83310] - Analysis in human cell lines Caco-2 and HeLa using Anti-DDX21 antibody. Corresponding DDX21 RNA-seq data are presented for the same cell lines. Loading control: Anti-GAPDH.



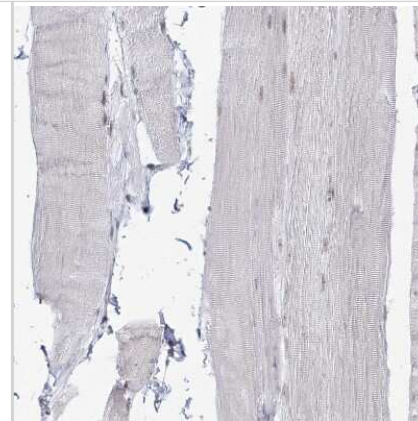
Immunocytochemistry/Immunofluorescence: DDX21 Antibody [NBP1-83310] - Staining of human cell line U-251 MG shows localization to nucleus & nucleoli. Antibody staining shown in green.



Immunohistochemistry-Paraffin: DDX21 Antibody [NBP1-83310] - Staining of human appendix shows strong positivity in nucleoli in lymphoid tissue.



Immunohistochemistry-Paraffin: DDX21 Antibody [NBP1-83310] - Staining of human skeletal muscle shows no positivity in nucleoli in myocytes as expected.



Publications

Sun YM, Zhu SX, Chen XT, Pan Q et al. lncRNAs maintain the functional phase state of nucleolar prion-like protein to facilitate rRNA processing *Mol Cell* 2024-11-23 [PMID: 39579766]

McMahon KA, Stroud DA, Gambin Y et al. Cavin3 released from caveolae interacts with BRCA1 to regulate the cellular stress response *eLife* 2021-06-18 [PMID: 34142659]

Hao JD, Liu QL, Liu MX, Yang X et al. DDX21 mediates co-transcriptional RNA m(6)A modification to promote transcription termination and genome stability *Mol Cell* 2024-04-03 [PMID: 38569554]

Putra V, Hulme AJ, Tee AE et al. The RNA-helicase DDX21 upregulates CEP55 expression and promotes neuroblastoma *Molecular Oncology* 2021-04-01 [PMID: 33497018]

Miao W, Porter DF, Lopez-Pajares V et al. Glucose dissociates DDX21 dimers to regulate mRNA splicing and tissue differentiation *Cell* 2023-01-05 [PMID: 36608661] (Human)

Details:

1:50 dilution used

Shao W, Bi X, Pan Y et al. Phase separation of RNA-binding protein promotes polymerase binding and transcription *Nature chemical biology* 2022-01-01 [PMID: 34916619] (WB)

Koltowska K, Okuda KS, Gloger M Et al. The RNA helicase Ddx21 controls Vegfc-driven developmental lymphangiogenesis by balancing endothelial cell ribosome biogenesis and p53 function *Nature cell biology* 2021-11-01 [PMID: 34750583] (ICC/IF, KD, WB, Human)

Santoriello C, Sporrij A, Yang S et al. RNA helicase DDX21 mediates nucleotide stress responses in neural crest and melanoma cells *Nat. Cell Biol.* 2020-04-01 [PMID: 32231306] (ICC/IF, Zebrafish)

Argaud D, Boulanger MC, Chignon A et al. Enhancer-mediated enrichment of interacting JMJD3-DDX21 to ENPP2 locus prevents R-loop formation and promotes transcription *Nucleic Acids Res.* 2019-06-28 [PMID: 31251802] (Chemotaxis, WB, Human)

Krishnan P, Moreno PR, Turnbull IC et al. RNA Targets Ribogenesis Factor WDR43 to Chromatin for Transcription and Pluripotency Control *Mol. Cell* 2019-05-17 [PMID: 31128943] (ICC/IF, WB, Mouse)

Calo E, Gu B, et al. Tissue-selective effects of nucleolar stress and rDNA damage in developmental disorders. *Nature* 2018-02-01 [PMID: 29364875]

Calo E, Flynn RA, Martin L et al. RNA helicase DDX21 coordinates transcription and ribosomal RNA processing. *Nature* 2015-02-12 [PMID: 25470060] (Chemotaxis)

More publications at <http://www.novusbio.com/NBP1-83310>



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Products Related to NBP1-83310

NBP1-83310PEP	DDX21 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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