

Rabbit DDX21 Polyclonal Antibody | anti-DDX21 antibody

DDX21 Antibody

CATALOG # AAA322896	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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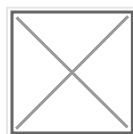
PRODUCT SYNONYMS

DDX21; Polyclonal Antibody; DDX21 Antibody; Ddx21; DDX21_HUMAN; DEAD (Asp-Glu-Ala-Asp) box helicase 21; DEAD (Asp-Glu-Ala-Asp) box polypeptide 21; DEAD box protein 21; EC 3.6.1.-; Gu alpha; Gu protein; Gu-alpha; GUA; GURDB; Nucleolar RNA helicase 2; Nucleolar RNA helicase Gu; Nucleolar RNA helicase II; RH II/Gu; RH II/GuA; RNA helicase II/Gu alpha; anti-DDX21 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	DDX21 antibody detects endogenous levels of DDX21.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	715
Applicable Applications for anti-DDX21 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human DDX21.
Subcellular Location	Nucleus > Nucleolus.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES


WB (Western Blot)

Western blot analysis of extracts from 293, using DDX21 antibody. Lane 1 was treated with the blocking peptide.


WB (Western Blot)

Western blot analysis of extracts of HepG2 cells, using DDX21 antibody.



IHC (Immunohistochemistry)

AAA322896 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-DDX21 antibody	Function: RNA helicase that acts as a sensor of the transcriptional status of both RNA polymerase (Pol) I and II: promotes ribosomal RNA (rRNA) processing and transcription from polymerase II (Pol II) (PubMed:25470060). Binds various RNAs, such as rRNAs, snoRNAs, 7SK and, at lower extent, mRNAs (PubMed:25470060). In the nucleolus, localizes to rDNA locus, where it directly binds rRNAs and snoRNAs, and promotes rRNA transcription, processing and modification. Required for rRNA 2'-O-methylation, possibly by promoting the recruitment of late-acting snoRNAs SNORD56 and SNORD58 with pre-ribosomal complexes (PubMed:25470060, PubMed:25477391). In the nucleoplasm, binds 7SK RNA and is recruited to the promoters of Pol II-transcribed genes: acts by facilitating the release of P-TEFb from inhibitory 7SK snRNP in a manner that is dependent on its helicase activity, thereby promoting transcription of its target genes (PubMed:25470060). Functions as cofactor for JUN-activated transcription: required for phosphorylation of JUN at 'Ser-77' (PubMed:11823437, PubMed:25260534). Can unwind double-stranded RNA (helicase) and can fold or introduce a secondary structure to a single-stranded RNA (foldase) (PubMed:9461305). Involved in rRNA processing (PubMed:14559904, PubMed:18180292). May bind to specific miRNA hairpins (PubMed:28431233). Subunit Structure: Component of the B-WICH complex, at least composed of SMARCA5/SNF2H, BAZ1B/WSTF, SF3B1, DEK, MYO1C, ERCC6, MYBBP1A and DDX21. Interacts with C1QBP. Interacts with JUN (PubMed:11823437, PubMed:18180292). Interacts with WDR46 (PubMed:23848194). Similarity: The helicase and foldase activities reside in two separate domains, the helicase in the N-terminus and the foldase in the C-terminus. The 3 X 5 AA repeats seem to be critical for the RNA folding activity. Belongs to the DEAD box helicase family. DDX21/DDX50 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	379317177
NCBI GeneID	9188
NCBI Accession #	NP_001243839.1
NCBI GenBank Nucleotide #	NM_001256910.1
UniProt Accession #	Q9NR30; Q13436; Q5VX41; Q68D35; B2RDL0
Molecular Weight	Observed: 87 kDa Predicted: 88 kDa
NCBI Official Full Name	nucleolar RNA helicase 2 isoform 2
NCBI Official Synonym Full Names	DExD-box helicase 21
NCBI Official Symbol	DDX21
NCBI Official Synonym Symbols	GUA; GURDB; RH-II/GU; RH-II/GuA
NCBI Protein Information	nucleolar RNA helicase 2
UniProt Protein Name	Nucleolar RNA helicase 2
UniProt Gene Name	DDX21

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

