

Product datasheet for **TA384091S**

DDX21 Rabbit Monoclonal Antibody [Clone ID: R04-4J2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	R04-4J2
Applications:	IF, WB
Recommended Dilution:	WB: 1/1000 ICC/IF: 1/100
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide of human DDX21
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 87 kDa; Observed MW: 87 kDa
Gene Name:	DEAD-box helicase 21
Database Link:	Entrez Gene 9188 Human Q9NR30

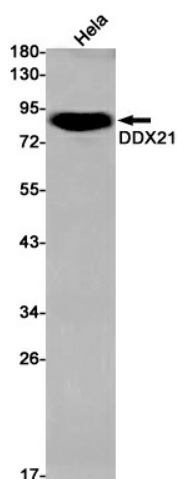
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Background:

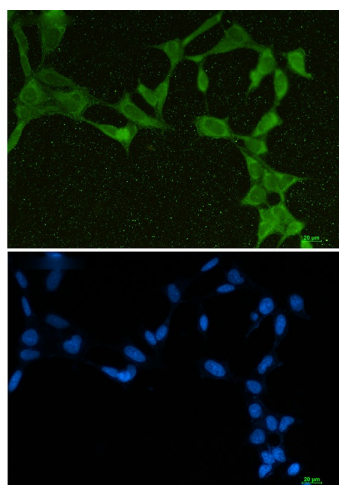
Swiss-Prot Acc.Q9NR30.RNA helicase that acts as a sensor of the transcriptional status of both RNA polymerase (Pol) I and II: promotes ribosomal RNA (rRNA) processing and transcription from polymerase II (Pol II) (PubMed:25470060). Binds various RNAs, such as rRNAs, snoRNAs, 7SK and, at lower extent, 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).

Synonyms:

DKFZp686F21172; Gu-alpha; GUA; GURDB; RH-II/GU; RH-II/GuA

Product images:


Western blot detection of DDX21 in HeLa cell lysates using DDX21 Rabbit mAb(1:1000 diluted). Predicted band size: 87kDa. Observed band size: 87kDa.



Immunocytochemistry analysis of DDX21 (green) in 293T using DDX21 antibody, and DAPI (blue).