

Rabbit anti-Human DDX21 Polyclonal Antibody | anti-DDX21 antibody

Anti-DDX21 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA256289	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

DDX21; Polyclonal Antibody; Anti-DDX21 Antibody; Rabbit Polyclonal; DDX21 Antibody; Rabbit PAb; Antigen Affinity Purified; Anti-GUA Antibody; Anti-GURDB Antibody; Anti-RH-II/GU Antibody; Anti-RH-II/GuA Antibody; anti-DDX21 antibody

PRODUCT SPECIFICATIONS

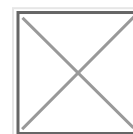
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human DDX21
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-DDX21 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human DDX21 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human DDX21 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

IARS2 was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate 4 uL anti-IARS2 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-IARS2 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 87 kDa. Observed band size: 95 kDa.



IF (Immunofluorescence)

Immunofluorescence staining of DDX21 in U251MG cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human DDX21 polyclonal antibody (dilution ratio 1:200) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Nucleus.



WB (Western Blot)

Anti-DDX21 rabbit polyclonal antibody at 1:500 dilution Lane A: HepG2 Whole Cell Lysate Lane B: HEK293 Whole Cell Lysate Lane C: Jurkat Whole Cell Lysate Lane D: HeLa Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 87 kDa Observed band size: 95 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-DDX21 antibody	DEAD-box RNA helicases are vital for the regulation of various aspects of the RNA life cycle. The DEAD-box RNA helicase DDX21 can sense the transcriptional status of both RNA polymerase (Pol) I and II to control multiple steps of ribosome biogenesis in human cells. DDX21 widely associates with Pol I- and Pol II-transcribed genes and with diverse species of RNA, most prominently with non-coding RNAs involved in the formation of ribonucleoprotein complexes, including ribosomal RNA, small nucleolar RNAs (snoRNAs) and 7SK RNA. In the nucleolus, DDX21 occupies the transcribed rDNA locus, directly contacts both rRNA and snoRNAs, and promotes rRNA transcription, processing and modification. In the nucleoplasm, DDX21 binds 7SK RNA and, as a component of the 7SK small nuclear ribonucleoprotein (snRNP) complex, is recruited to the promoters of Pol II-transcribed genes encoding ribosomal proteins and snoRNAs. Promoter-bound DDX21 facilitates the release of the positive transcription elongation factor b (P-TEFb) from the 7SK snRNP in a manner that is dependent on its helicase activity, thereby promoting transcription of its target genes.
References	McRae EKS, et al. (2017) Human ddx21 binds and unwinds rna guanine quadruplexes. Nucleic Acids Res 45 (11): 6656-6668. Cao J, et al. (2018) Ddx21 promotes gastric cancer proliferation by regulating cell cycle. Biochem Biophys Res Commun 505 (4): 1189-1194. Calo E, et al. (2015) Rna helicase ddx21 coordinates transcription and ribosomal rna processing. Nature 518 (7538): 249-253.

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/ddx21-antibody-immunoprecipitation-immunofluorescence-immunocytochemistry-western-blot-elisa/256289>