Datasheet for ABIN7113335

anti-DDX21 antibody

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Overview

Quantity:	100 µg
Target:	DDX21
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DDX21 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	DEAD(Asp-Glu-Ala-Asp) box polypeptide 21
Isotype:	IgG
Purification:	Immunogen affinity purified
Purity:	≥95 % as determined by SDS-PAGE

Target Details

Target:	DDX21
Alternative Name:	DDX21 (DDX21 Products)
Background:	Synonyms: Background: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,

Target Details

	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).
Molecular Weight:	87 kDa
Gene ID:	9188
UniProt:	Q9NR30
Pathways:	SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	WB: 1:500-1:2000, IP: 1:200-1:1000, IHC: 1:20-1:200, IF: 1:20-1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3,
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	-20°C for 12 months (Avoid repeated freeze / thaw cycles.)
Expiry Date:	12 months