Datasheet for ABIN2775197

anti-DDX21 antibody (N-Term)

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Overview

Quantity:	100 µL
Target:	DDX21
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Horse, Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DDX21 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human DDX21
Sequence:	MPGKLRSDAG LESDTAMKKG ETLRKQTEEK EKKEKPKSDK TEEIAEEEET
Predicted Reactivity:	Horse: 79%, Human: 100%, Rat: 91%, Yeast: 83%
Characteristics:	This is a rabbit polyclonal antibody against DDX21. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	DDX21
Alternative Name:	DDX21 (DDX21 Products)

Target Details

Background:	DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box protein, which is an antigen recognized by autoimmune antibodies from a patient with watermelon stomach disease. This protein unwinds double-stranded RNA, folds single-stranded RNA, and may play important roles in ribosomal RNA biogenesis, RNA editing, RNA transport, and general transcription. Alias Symbols: GUA, GURDB, RH-II/GU, RH-II/GuA Protein Interaction Partner: HUWE1, PA2G4, KPNA3, CEP250, SUMO2, SUMO3, STAU1, IVNS1ABP, UBC, MDM2, LGR4, SUMO1, ERG, WWOX, EED, rev, SRPK2, SRPK3, FBXO6, TARDBP, LYN, AICDA, PAN2, vif, WHSC1, VCAM1, ITGA4, IL7R, FN1, CSNK2A1, YWHAE, SMURF1, H2AFX, APTX, ESR1, FTSJ3, PCDHA2, RRP7A, R Protein Size: 783
Molecular Weight:	86 kDa
Gene ID:	9188
NCBI Accession:	NM_004728, NP_004719
UniProt:	Q9NR30
Pathways:	SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 783 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

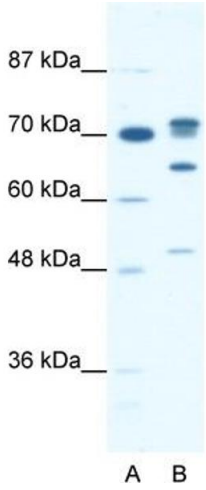
Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	Bortnik, Choutka, Horlings, Leung, Baker, Lebovitz, Dragowska, Go, Bally, Minchinton, Gelmon, Gorski: "Identification of breast cancer cell subtypes sensitive to ATG4B inhibition." in: **Oncotarget**, Vol. 7, Issue 41, pp. 66970-66988, (2016) (PubMed).

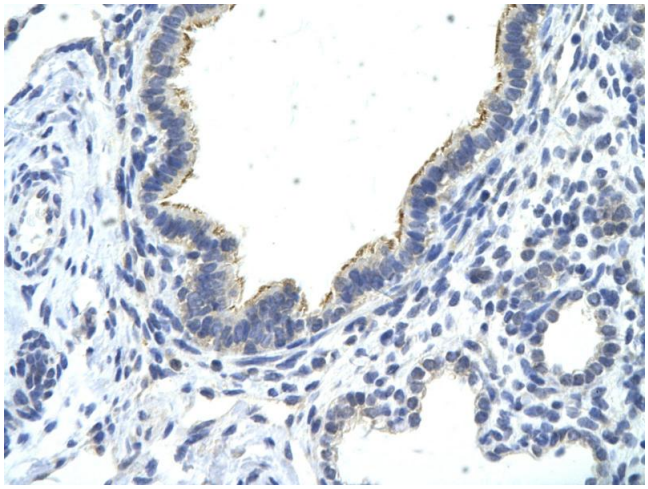
Images



Western Blotting

Image 1. WB Suggested Anti-DDX21 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:12500 Positive Control: HepG2 cell lysate DDX21 is supported by BioGPS gene expression data to be expressed in HepG2

Images



Immunohistochemistry

Image 2. Rabbit Anti-DDX21 antibody Paraffin Embedded Tissue: Human Lung cell Cellular Data: cilia of renal tubule Antibody Concentration: 4.0-8.0 ug/ml Magnification: 400X