

## DDX21 Monoclonal antibody

Catalog Number: 66925-1-Ig **2 Publications**

## Basic Information

## Catalog Number:

66925-1-Ig

## Size:

150ul, Concentration: 1300 ug/ml by Nanodrop and 773 ug/ml by Bradford method using BSA as the standard;

## Source:

Mouse

## Isotype:

IgG1

## Immunogen Catalog Number:

AG17850

## GenBank Accession Number:

BC008071

## GeneID (NCBI):

9188

## UNIPROT ID:

Q9NR30

## Full Name:

DEAD (Asp-Glu-Ala-Asp) box polypeptide 21

## Calculated MW:

783 aa, 87 kDa

## Observed MW:

90-95 kDa

## Purification Method:

Protein G purification

## CloneNo.:

1B9C8

## Recommended Dilutions:

WB: 1:2000-1:10000

IHC: 1:250-1:1000

IF/ICC: 1:400-1:1600

FC (Intra): 0.20 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

## Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

## Cited Applications:

WB, IHC, IP

## Species Specificity:

human

## Cited Species:

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Positive Controls:

WB: HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, HL-60 cells, THP-1 cells

IHC: human colon cancer tissue, human colon tissue

IF/ICC: HepG2 cells,

FC (Intra): HepG2 cells,

## Background Information

DDX21 protein belongs to DEAD box protein family which is characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD). As a putative RNA helicase, DDX21 unwinds double-stranded RNA, folds single-stranded RNA and is involved in process including ribosomal RNA biogenesis, RNA editing and general transcription. Interaction of DDX21 and c-Jun was reported in ribosomal RNA processing.

## Notable Publications

Author	Pubmed ID	Journal	Application
Katherine L Harper	39592606	Nat Commun	
Guanghui Zhang	39187490	Cell Death Dis	WB,IP,IHC

## Storage

## Storage:

Store at -20°C. Stable for one year after shipment.

## Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

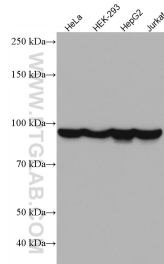
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

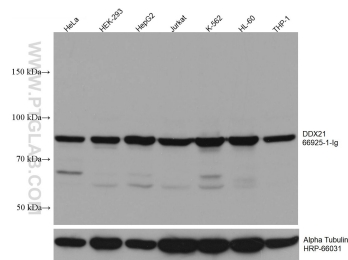
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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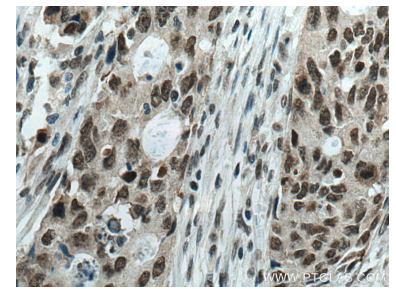
## Selected Validation Data



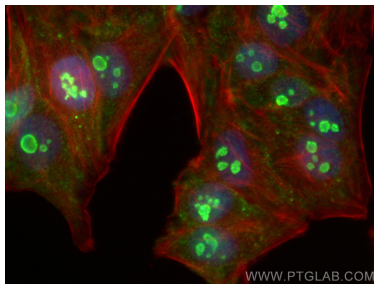
Various lysates were subjected to SDS PAGE followed by western blot with 66925-1-Ig (DDX21 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



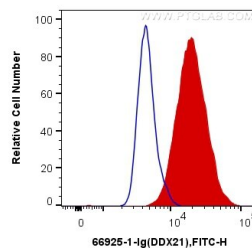
Various lysates were subjected to SDS PAGE followed by western blot with 66925-1-Ig (DDX21 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66925-1-Ig (DDX21 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using DDX21 antibody (66925-1-Ig, Clone: 1B9C8) at dilution of 1:800 and CoraLite@488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-Phalloidin (red).



1X10<sup>6</sup> HepG2 cells were intracellularly stained with 0.2 ug Anti-Human DDX21 (66925-1-Ig, Clone:1B9C8) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Mouse IgG1 Isotype Control (66360-1-Ig, Clone: T1F8D3F10) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).