

For Research Use Only

DDX21 Monoclonal antibody

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



Basic Information

Catalog Number: 66925-1-Ig	GenBank Accession Number: BC008071	Purification Method: Protein A purification
Size: 150ul , Concentration: 1300 ug/ml by Nanodrop and 773 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 9188	CloneNo.: 1B9C8
Source: Mouse	UNIPROT ID: Q9NR30	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:250-1:1000 IF/ICC 1:400-1:1600
Isotype: IgG1	Full Name: DEAD (Asp-Glu-Ala-Asp) box polypeptide 21	
Immunogen Catalog Number: AG17850	Calculated MW: 783 aa, 87 kDa	
	Observed MW: 90-95 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA	Positive Controls:
Cited Applications: WB, IHC, IP	WB : HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, HL-60 cells, THP-1 cells
Species Specificity: human	IHC : human colon cancer tissue, human colon tissue
Cited Species: human	IF/ICC : HepG2 cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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

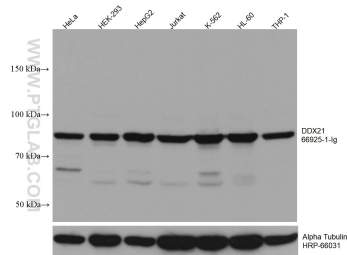
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

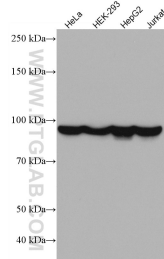
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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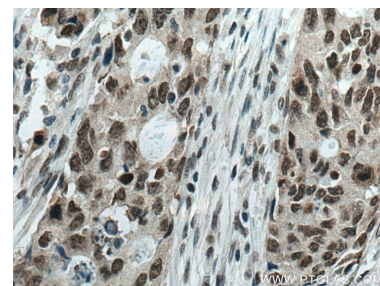
Selected Validation Data



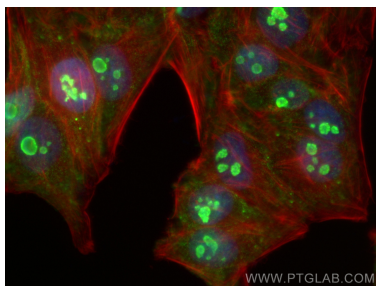
Various lysates were subjected to SDS PAGE followed by western blot with 66925-1-Ig (DDX21 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



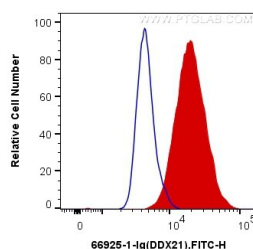
Various lysates were subjected to SDS PAGE followed by western blot with 66925-1-Ig (DDX21 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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).



1X10⁶ 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).