

For Research Use Only

DDX20 Polyclonal antibody

Catalog Number: 11324-1-AP

Featured Product

8 Publications



Basic Information

Catalog Number: 11324-1-AP	GenBank Accession Number: BC011556	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 1200 µg/ml by Nanodrop and 533 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 11218	Recommended Dilutions: WB 1:2000-1:10000 IP 0.5-4.0 ug for IP and 1:1000-1:4000 for WB
Source: Rabbit	Full Name: DEAD (Asp-Glu-Ala-Asp) box polypeptide 20	IHC 1:50-1:500 IF 1:20-1:200
Isotype: IgG	Calculated MW: 824 aa, 92 kDa	
Immunogen Catalog Number: AG1863	Observed MW: 100 kDa	

Applications

Tested Applications: FC, IF, IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: IF, IHC, IP, WB	WB : HEK-293T cells, Jurkat cells, mouse testis tissue, HeLa cells
Species Specificity: human, mouse	IP : HeLa cells,
Cited Species: human	IHC : human breast cancer tissue, human colon cancer tissue
	IF : HepG2 cells, Hela 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

DEAD (Asp-Glu-Ala-Asp) box polypeptide 20 (DDX20), also known as DP103 or Gemin3, is a member of the DEAD box protein family expressed ubiquitously. DEAD family proteins use energy from ATP hydrolysis for RNA chaperoning and RNPase activity (PMID: 27121695). As a core member of the survival motor neuron (SMN) complex, DDX20 participate in small nuclear ribonucleoprotein (snRNP) biogenesis. Second, DDX20 have direct roles in gene expression in view of its implication in transcription and post-transcriptional gene silencing. Addition, the false expression of DDX20 could have deleterious effects on cellular homeostasis thus leading to cancer development and progression (PMID:29523774). Anymore, DDX20 could be identified as a biomarker and metastasis-driving oncogene of human breast cancer (PMID: 25083991). The detected weight of DDX20 is slightly higher than the theoretical molecular weight that is because of phosphorylation after translation.

Notable Publications

Author	Pubmed ID	Journal	Application
Qing Li	26430246	Biosci Rep	WB
Qingshui Wang	33005307	Comput Struct Biotechnol J	WB
Eun Myoung Shin	25083991	J Clin Invest	WB, IHC

Storage

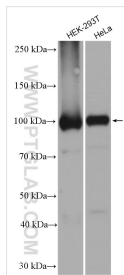
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

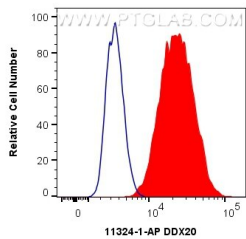
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

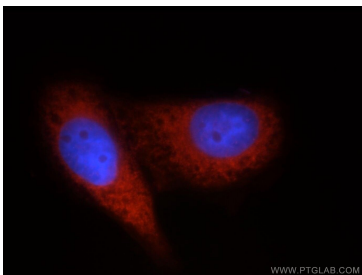
Selected Validation Data



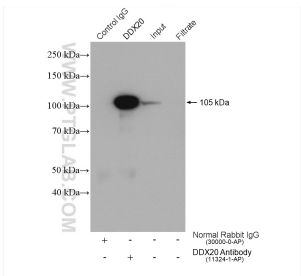
Various lysates were subjected to SDS PAGE followed by western blot with 11324-1-AP (DDX20 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



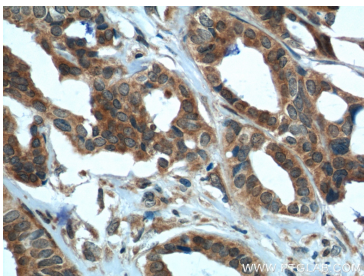
1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug Anti-Human DDX20 (11324-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of HepG2 cells, using DDX20 antibody 11324-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



IP result of anti-DDX20(IP:11324-1-AP, 4ug; Detection:11324-1-AP 1:2000) with HeLa cells lysate 1880 ug.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 11324-1-AP (DDX20 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).