For Research Use Only

DDX20 Polyclonal antibody

Catalog Number:11324-1-AP Featured Product 10 Publications

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Basic Information

Catalog Number:
11324-1-AP

Size:
150ul , Concentration: 1200 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1863

GenBank Accession Number:
BC011556

GeneID (NCBI):
11218

UNIPROT ID:
Q9UHI6

Full Name:
DEAD (Asp-Glu-Ala-Asp) box polypeptide 20

Calculated MW:
824 aa, 92 kDa

Observed MW:
100 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:10000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF/ICC 1:20-1:200

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:
WB, IHC, IF, IP

Species Specificity:
human, mouse

Cited Species:
human, mouse

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 : HEK-293T cells, Jurkat cells, mouse testis tissue, HeLa cells

IP : HeLa cells,

IHC : human breast cancer tissue, human colon cancer tissue

IF/ICC : HepG2 cells, Hela cells

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
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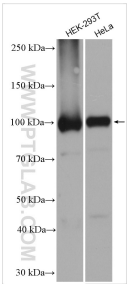
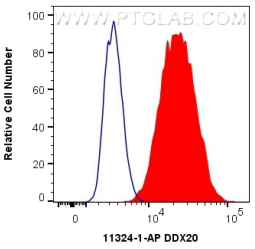
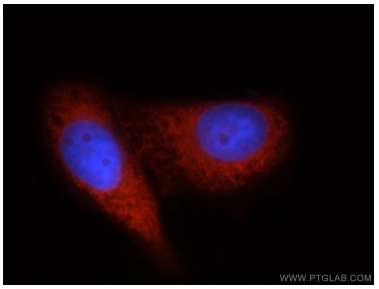
Selected Validation Data



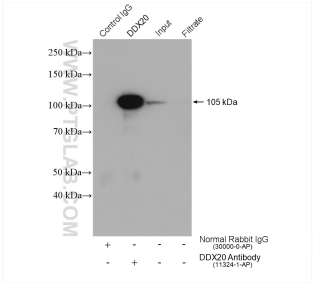
Various lysates were subjected to SDS PAGE followed by western blot with 11324-1-AP (DDX20 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



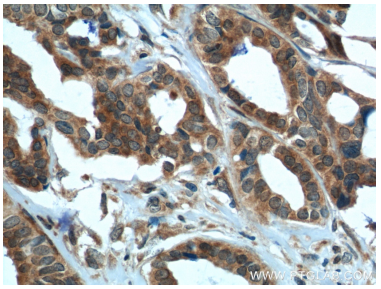
1X10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human DDX20 (11324-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



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).