

For Research Use Only

# DHX9 Monoclonal antibody

Catalog Number: 67153-1-Ig

Featured Product

7 Publications



## Basic Information

Catalog Number:

67153-1-Ig

Size:

150ul, Concentration: 1861 ug/ml by

Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG12104

GenBank Accession Number:

BC014246

GeneID (NCBI):

1660

UNIPROT ID:

Q08211

Full Name:

DEAH (Asp-Glu-Ala-His) box polypeptide 9

Calculated MW:

1270 aa, 141 kDa

Observed MW:

140 kDa

Purification Method:

Protein A purification

CloneNo.:

1B12C10

Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:1000-1:4000

IF/ICC 1:50-1:500

## Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IF, IP, ColP, RIP

Species Specificity:

Human, mouse, rat

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 : MCF-7 cells, HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, THP-1 cells

IP : HeLa cells,

IHC : mouse brain tissue, human breast cancer tissue

IF/ICC : HepG2 cells,

## Background Information

RNA helicases play important roles in transcription, RNA processing, translation, and RNA replication. DEAD box proteins are putative RNA helicases that have a characteristic Asp-Glu-Ala-Asp (DEAD) box as 1 of 8 highly conserved sequence motifs. DHX9 a member of the DEAH family of proteins, which possess a double-stranded RNA-binding domain (dsRBD) and a helicase domain [PMID:20569003]. It unwinds double-stranded DNA and RNA in a 3' to 5' direction. Alteration of secondary structure of DHX9 may subsequently influence interactions with proteins or other nucleic acids. It is also a component of the CRD-mediated complex that promotes MYC mRNA stability. In addition, it is involved with LARP6 in the stabilization of type I collagen mRNAs for CO1A1 and CO1A2 [PMID:19029303, 22190748].

## Notable Publications

Author	Pubmed ID	Journal	Application
Yan Liang	39854120	Adv Sci (Weinh)	WB
Katherine L Harper	39592606	Nat Commun	
Xingxing Ren	38594251	Nat Commun	IF

## 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

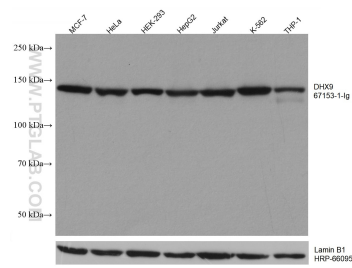
For technical support and original validation data for this product please contact:

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

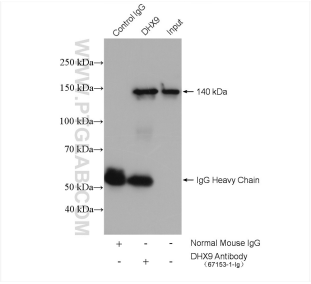
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

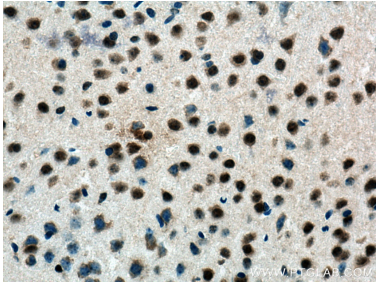
Selected Validation Data



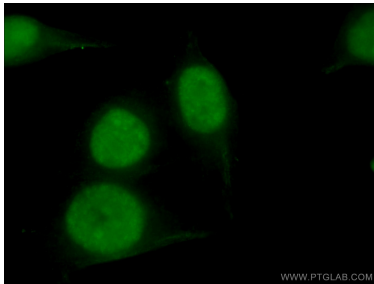
Various lysates were subjected to SDS PAGE followed by western blot with 67153-1-Ig (DHX9 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Lamin B1 Monoclonal antibody (HRP-66095) as loading control.



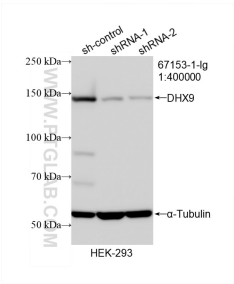
IP result of anti-DHX9 (IP:67153-1-Ig, 5ug; Detection:67153-1-Ig 1:20000) with HeLa cells lysate 2000 ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67153-1-Ig (DHX9 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 67153-1-Ig (DHX9 antibody) at dilution of 1:100 and CoraLite488-Conjugated Goat Anti-Mouse IgG(H+L).



WB result of DHX9 antibody (67153-1-Ig; 1:400000; incubated at room temperature for 1.5 hours) with sh-Control and sh-DHX9 transfected HEK-293 cells.