

For Research Use Only

# DHX9 Polyclonal antibody

Catalog Number: 17721-1-AP

Featured Product

37 Publications



## Basic Information

**Catalog Number:**

17721-1-AP

**Size:**

500 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**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:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:5000-1:50000

IHC 1:50-1:500

IF 1:400-1:1600

## Applications

**Tested Applications:**

IF/ICC, IHC, WB, ELISA

**Cited Applications:**

WB, RIP, IP, IHC, IF, ELISA, CoIP, ChIP

**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:** HeLa cells, mouse testis tissue, rat spleen tissue, rat testis tissue, Jurkat cells

**IHC:** mouse brain tissue, mouse testis tissue

**IF:** 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
Feng Shi	34676915	J Clin Lab Anal	WB, IHC
Liang Liu	36377508	CNS Neurosci Ther	WB, IHC
Nilu Roy Choudhury	29117863	BMC Biol	WB

## 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

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

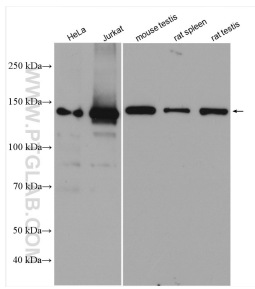
T: 4006900926

E: Proteintech-CN@ptglab.com

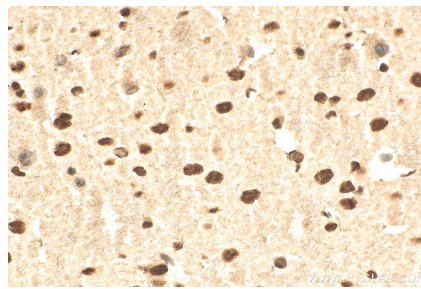
W: ptgcn.com

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

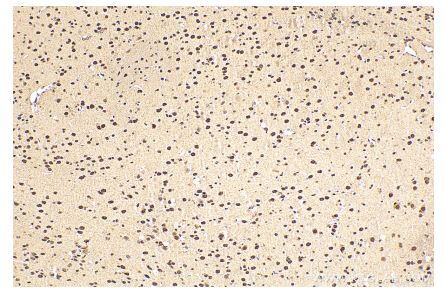
## Selected Validation Data



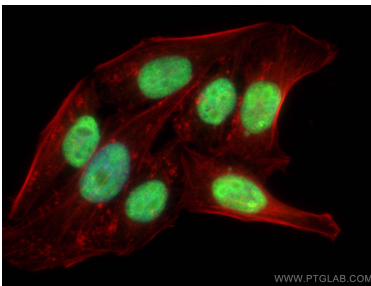
Various lysates were subjected to SDS PAGE followed by western blot with 17721-1-AP (DHX9 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



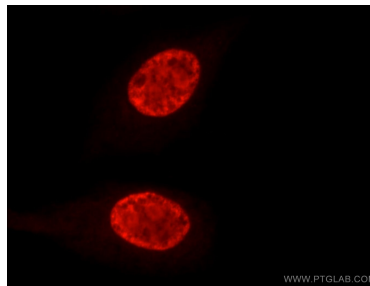
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 17721-1-AP (DHX9 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 17721-1-AP (DHX9 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using DHX9 antibody (17721-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of HepG2 cells, using DHX9 antibody 17721-1-AP at 1:100 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).