For Research Use Only

DHX9 Monoclonal antibody

Catalog Number:67153-1-Ig Featured Product 3 Publications

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Basic Information

Catalog Number:
67153-1-Ig

Size:
1861 μg/ml

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 1:50-1:500

Applications

Tested Applications:
IF/ICC, IHC, IP, WB, ELISA

Cited Applications:
WB, IP, IF, RIP, CoIP

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 : 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
Yang Cao	37864796	Cell Rep	IP,RIP,WB,IF,CoIP
Xingxing Ren	36735791	Sci Adv	WB,IF
Tamara Vital	36793594	Front Oncol	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:
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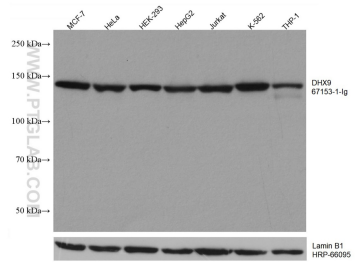
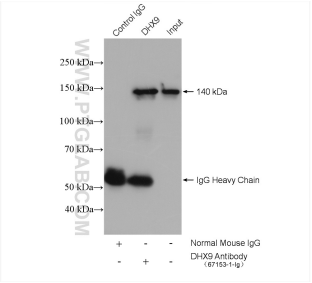
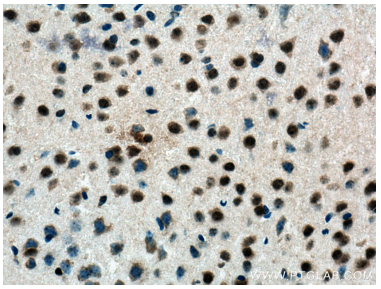
Selected Validation Data



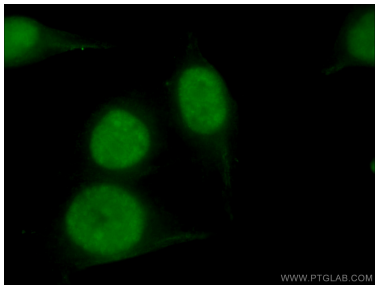
Various lysates were subjected to SDS PAGE followed by western blot with 67153-1-Ig (DHX9 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Lamin B1 Monoclonal antibody (HRP-66095) as loading control.



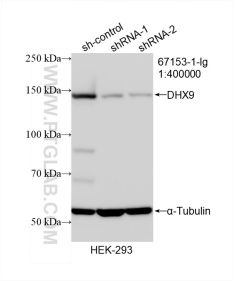
IP result of anti-DHX9 (IP:67153-1-Ig, 5ug; Detection:67153-1-Ig 1:20000) with HeLa cells lysate 2000 ug.



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 AffiniPure 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.