

For Research Use Only

DDX4, VASA Polyclonal antibody

Catalog Number: 51042-1-AP

15 Publications



Basic Information

Catalog Number:

51042-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0447

GenBank Accession Number:

BC047455

GeneID (NCBI):

54514

UNIPROT ID:

Q9NQ10

Full Name:

DEAD (Asp-Glu-Ala-Asp) box polypeptide 4

Calculated MW:

690aa, 76 kDa; 724aa, 79 kDa

Observed MW:

79 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

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

protein lysate

IHC 1:50-1:500

IF-P 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB : mouse testis tissue, rat testis tissue

IP : mouse testis tissue,

IHC : mouse testis tissue, mouse ovary tissue

IF-P : mouse testis tissue,

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 box proteins are characterized by nine conserved sequence motifs located on two functional domains. Domain I contains six of these motifs, including the Q motif and the Walker A motif, motifs Ia and Ib, the Walker B motif, and motif III, which may act to link ATPase and helicase activities of the protein [PMID:21653890]. DDX4, a member of the DEAD box family of ATP-dependent RNA helicases, plays a central role in several aspects of germ cell development. Its function is not only required during gametogenesis in the adult but is also essential for the specification of the germ cell lineage during embryogenesis [PMID:20016130].

Notable Publications

Author	Pubmed ID	Journal	Application
Keiken Ri	36131086	Commun Biol	WB
Buo-Jia Lu	35955560	Int J Mol Sci	IHC
Yuzhu Cao	35834386	STAR Protoc	IF

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**

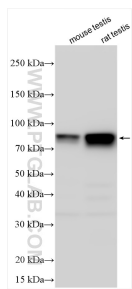
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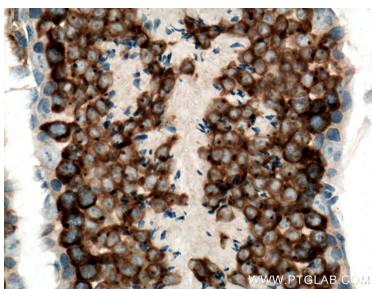
E: proteintech@ptglab.com
W: ptglab.com

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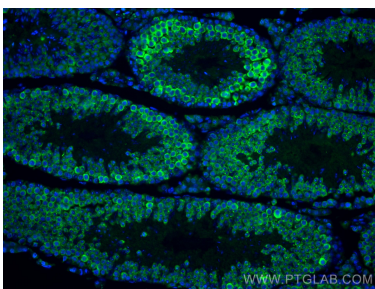
Selected Validation Data



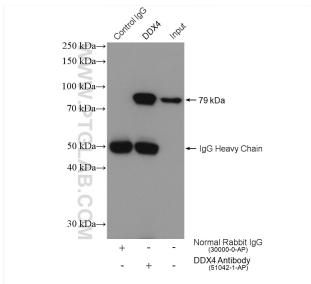
Various lysates were subjected to SDS PAGE followed by western blot with 51042-1-AP (DDX4,VASA antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 51042-1-AP (DDX4,VASA antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using DDX4,VASA antibody (51042-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



IP result of anti-DDX4,VASA (IP:51042-1-AP, 4ug; Detection:51042-1-AP 1:500) with mouse testis tissue lysate 2040 ug.