

For Research Use Only

DDX4, VASA Polyclonal antibody

Catalog Number: 51042-1-AP

11 Publications



Basic Information

Catalog Number: 51042-1-AP	GenBank Accession Number: BC047455	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 54514	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 1:50-1:500
Source: Rabbit	Full Name: DEAD (Asp-Glu-Ala-Asp) box polypeptide 4	
Isotype: IgG	Calculated MW: 690aa, 76 kDa; 724aa, 79 kDa	
Immunogen Catalog Number: AG0447	Observed MW: 79 kDa	

Applications

Tested Applications: IF, IHC, IP, WB, ELISA	Positive Controls: WB: mouse testis tissue, IP: mouse testis tissue, IHC: mouse testis tissue, mouse ovary tissue IF: mouse testis tissue,
Cited Applications: IF, IHC, WB	
Species Specificity: human, mouse	
Cited Species: human, rat, mouse	

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

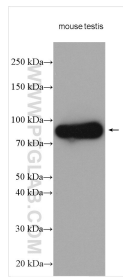
Storage:
Store at -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

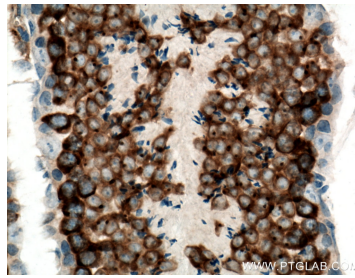
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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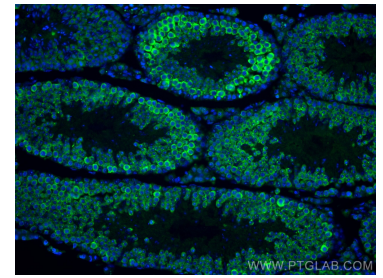
Selected Validation Data



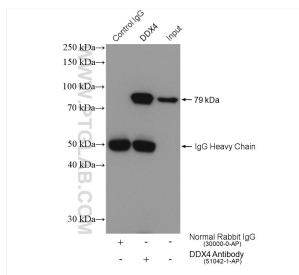
Mouse testis tissue were subjected to SDS PAGE followed by western blot with 51042-1-AP (DDX4,VASA antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



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 AffiniPure 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.