

For Research Use Only

DDX4, VASA Monoclonal antibody

Catalog Number: 67147-2-Ig **4 Publications**



Basic Information

Catalog Number: 67147-2-Ig	GenBank Accession Number: BC047455	Purification Method: Protein A purification
Size: 150ul , Concentration: 1600 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 54514	CloneNo.: 1F12C3
Source: Mouse	UNIPROT ID: Q9NQI0	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF-P 1:200-1:800
Isotype: IgG1	Full Name: DEAD (Asp-Glu-Ala-Asp) box polypeptide 4	
Immunogen Catalog Number: AG11630	Calculated MW: 690aa, 76 kDa; 724aa, 79 kDa	
	Observed MW: 79 kDa	

Applications

Tested Applications: WB, IHC, IF-P, ELISA	Positive Controls:
Cited Applications: IF	WB : SKOV-3 cells, JAR cells, rat testis tissue, NCCIT cells
Species Specificity: Human, mouse, rat	IHC : mouse testis tissue,
Cited Species: human, mouse, rat	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
Ziqian Min	36444304	iScience	
Qianwen Ma	39948331	Reprod Sci	IF
Qianwen Ma	38453773	Reprod Sci	IF

Storage

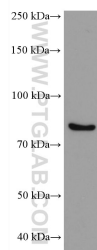
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

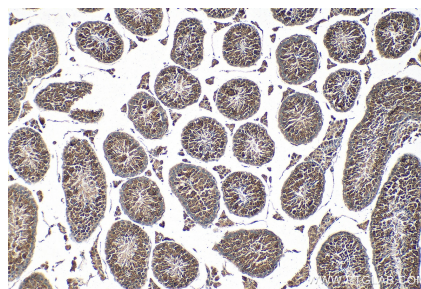
For technical support and original validation data for this product please contact:
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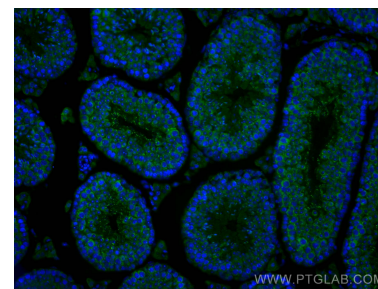
Selected Validation Data



SKOV-3 cells were subjected to SDS PAGE followed by western blot with 67147-2-Ig (DDX4, VASA antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 67147-2-Ig (DDX4, VASA antibody) at dilution of 1:1000 (under 10x 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 (67147-2-Ig, Clone: 1F12C3) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).