

For Research Use Only

# DDX4, VASA Monoclonal antibody, PBS Only



Catalog Number: 67147-2-PBS

## Basic Information

<b>Catalog Number:</b> 67147-2-PBS	<b>GenBank Accession Number:</b> BC047455	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 54514	<b>CloneNo.:</b> 1F12C3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9NQI0	
<b>Isotype:</b> IgG1	<b>Full Name:</b> DEAD (Asp-Glu-Ala-Asp) box polypeptide 4	
<b>Immunogen Catalog Number:</b> AG11630	<b>Calculated MW:</b> 690aa,76 kDa; 724aa,79 kDa	
	<b>Observed MW:</b> 79 kDa	

## Applications

**Tested Applications:**  
WB, IF, IHC, ELISA

**Species Specificity:**  
Human, mouse, rat

## 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].

## Storage

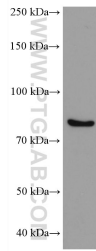
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only

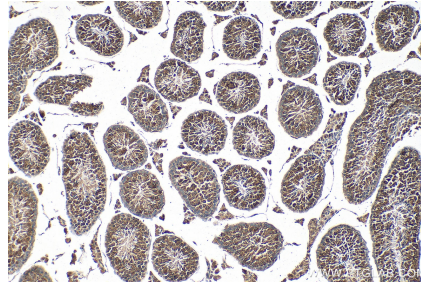
For technical support and original validation data for this product please contact:  
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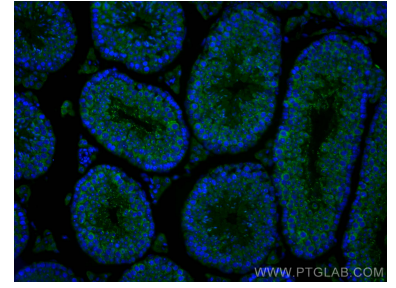
## Selected Validation Data



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. This data was developed using the same antibody clone with 67147-2-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 67147-2-PBS in a different storage buffer formulation.



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 AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 67147-2-PBS in a different storage buffer formulation.