

For Research Use Only

DDX4, VASA Monoclonal antibody

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



Basic Information

| | | |
|---|---|--|
| Catalog Number: 67147-2-Ig | GenBank Accession Number: BC047455 | Purification Method: Protein A purification |
| Size: 150ul, Concentration: 1600 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 54514 | CloneNo.: 1F12C3 |
| Source: Mouse | UNIPROT ID: Q9NQ10 | Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF 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, IF, IHC, ELISA | Positive Controls: WB : SKOV-3 cells, JAR cells, rat testis tissue, NCCIT cells |
| Cited Applications: IF | IHC : mouse testis tissue, |
| Species Specificity: Human, mouse, rat | IF : mouse testis tissue, |
| 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 |
|------------|-----------|------------|-------------|
| Ziqian Min | 36444304 | iScience | |
| Qianwen Ma | 38453773 | Reprod Sci | IF |

Storage

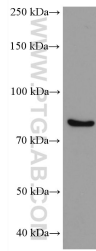
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

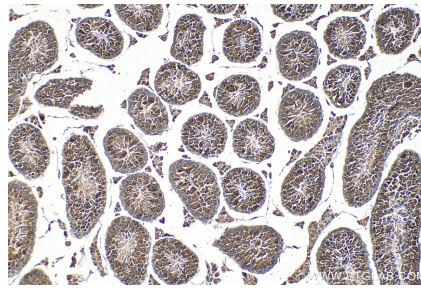
For technical support and original validation data for this product please contact:
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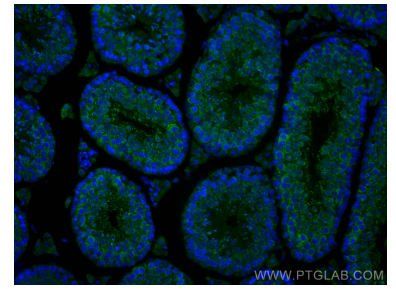
Selected Validation Data



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 AffiniPure Goat Anti-Mouse IgG(H+L).