

For Research Use Only

# DDX4, VASA Polyclonal antibody

Catalog Number: 17545-1-AP

1 Publications



## Basic Information

### Catalog Number:

17545-1-AP

### Size:

150ul, Concentration: 900 ug/ml by Nanodrop and 460 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG11647

### GenBank Accession Number:

BC047455

### GeneID (NCBI):

54514

### UNIPROT ID:

Q9NQI0

### 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 1:20000-1:100000

IHC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, ELISA

### Species Specificity:

mouse, rat

### Positive Controls:

WB : mouse testis tissue, rat testis tissue

IHC : 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
Larissa Zarate-Garcia	27301892	Sci Rep	

## 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

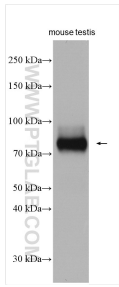
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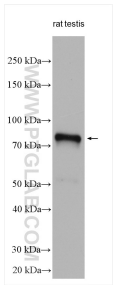
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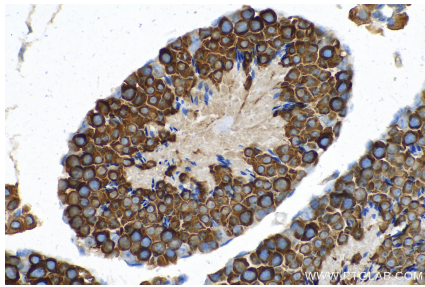
## Selected Validation Data



mouse testis tissue were subjected to SDS PAGE followed by western blot with 17545-1-AP (DDX4,VASA antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



rat testis tissue were subjected to SDS PAGE followed by western blot with 17545-1-AP (DDX4,VASA antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 17545-1-AP (DDX4,VASA antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).