

CoraLite® Plus 488-conjugated DDX4, VASA Monoclonal antibody

Catalog Number: **CL488-67147****1 Publications**

Basic Information

Catalog Number:

CL488-67147

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG11630

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:

80 kDa

Purification Method:

Protein G purification

CloneNo.:

1F12C3

Recommended Dilutions:

IF-P 1:50-1:500

**Excitation/Emission maxima
wavelengths:**

493 nm / 522 nm

Applications

Tested Applications:

IF-P

Cited Applications:

IF

Species Specificity:

Human, mouse

Cited Species:

mouse

Positive Controls:

IF-P: mouse testis tissue,

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 |
|-----------|-----------|---------------------|-------------|
| Xue Zhang | 37346174 | Front Cell Dev Biol | IF |

Storage

Storage:

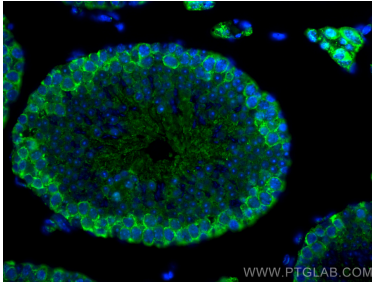
Store at -20°C. Avoid exposure to light.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using CoraLite® Plus 488 DDX4,VASA antibody (CL488-67147, Clone: 1F12C3) at dilution of 1:200.