

DDX4 / VASA Antibody (aa700-724)
Rabbit Polyclonal Antibody
Catalog # ALS14900**Specification**

DDX4 / VASA Antibody (aa700-724) - Product Information

Application	IHC
Primary Accession	Q9NQI0
Reactivity	Human, Mouse, Monkey, Horse, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	79kDa KDa

DDX4 / VASA Antibody (aa700-724) - Additional Information**Gene ID** 54514**Other Names**

Probable ATP-dependent RNA helicase DDX4, 3.6.4.13, DEAD box protein 4, Vasa homolog, DDX4, VASA

Target/Specificity

Human DDX4

Reconstitution & Storage

Store at 4°C for short term applications. For long term storage, aliquot and store at -20°C.

Precautions

DDX4 / VASA Antibody (aa700-724) is for research use only and not for use in diagnostic or therapeutic procedures.

DDX4 / VASA Antibody (aa700-724) - Protein Information**Name** DDX4**Synonyms** VASA**Function**

ATP-dependent RNA helicase required during spermatogenesis (PubMed:10920202, PubMed:21034600). Required to repress transposable elements and preventing their mobilization, which is essential for the germline integrity (By similarity). Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons (By similarity). Involved in the secondary piRNAs metabolic process, the production of piRNAs in fetal male germ cells through a ping-pong amplification cycle (By similarity). Required for PIWIL2 slicing- triggered piRNA biogenesis: helicase activity enables utilization of one of the slice cleavage

fragments generated by PIWIL2 and processing these pre-piRNAs into piRNAs (By similarity).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q61496}. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q61496} Note=Component of the meiotic nuage, also named P granule, a germ-cell- specific organelle required to repress transposon activity during meiosis. {ECO:0000250|UniProtKB:Q61496}

Tissue Location

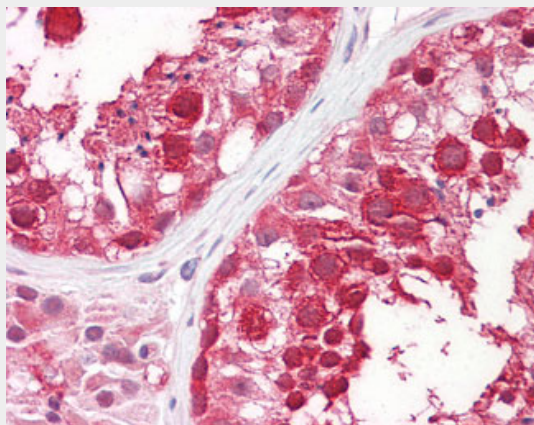
Expressed only in ovary and testis. Expressed in migratory primordial germ cells in the region of the gonadal ridge in both sexes.

DDX4 / VASA Antibody (aa700-724) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

DDX4 / VASA Antibody (aa700-724) - Images



Anti-DDX4 antibody IHC of human testis.

DDX4 / VASA Antibody (aa700-724) - Background

May play a role in germ cell development. May play a role in sperm motility.

DDX4 / VASA Antibody (aa700-724) - References

Castrillon D.H., et al. Proc. Natl. Acad. Sci. U.S.A. 97:9585-9590(2000).
Rocha D., et al. Submitted (MAY-2000) to the EMBL/GenBank/DDBJ databases.
Ota T., et al. Nat. Genet. 36:40-45(2004).
Schmutz J., et al. Nature 431:268-274(2004).
Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.