



Rabbit anti VASA (pS43) Polyclonal Antibody

Alternative Name(s): VASA Protein, DEAD-box protein 4(DDX4), Mab4611

Order Information

- **Description:** VASA (pS43)
- **Catalogue:** 601-340
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu

ANTIGEN PREPARATION

A synthetic peptide corresponding to the epitope –GGSGG- with the phosphorylated serine of human VASA protein. This sequence is identical within human, rat, mouse.

BACKGROUND

The VASA gene, originally identified in *Drosophila*, encodes a member of the DEAD box family of ATP-dependent RNA helicases. The expression of VASA in invertebrate and vertebrate species is restricted to germ cells and is required for germ cell formation. VASA is therefore a highly specific marker of germ cells. This protein is located in cytoplasmic and is present only in migratory primordial germ cells in the region of the gonadal ridge. On testicular sections, VASA expression is the highest in spermatogonia, reduced in spermatocytes, low in spermatids and absent in sperm. In the ovary, VASA expression is the highest in oogonia but persists throughout oogenesis. VASA has a glycine-rich N-terminus with multiple repeats of an RGG motif believed to function in RNA binding. The phosphorylation of VASA at N-terminus may regulate the translation of intricate mRNAs that are essential for differentiation.

PURIFICATION

The Rabbit IgG is purified by site-modified Epitope Affinity Purification.

FORMULATION

This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes ~76 kDa of VASA protein at a phosphorylation site serine 43. It does not recognize non-phosphorylated peptides. This antibody also reacts with human, mouse and rat. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at –20oC to –70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 76.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

FOR RESEARCH USE ONLY.

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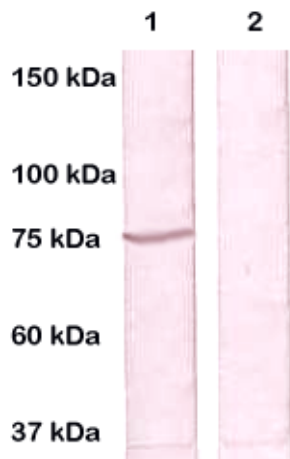


*Optimal dilutions should be determined by researchers for the specific applications.

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DATA ATTACHMENTS



Western Blot: The cell lysate derived from mouse embryonic germ cell (20 ug/lane) was immunoprobed by Rabbit anti phospho-VASA (pS43) (Cat#601-340) at 1:500. An immunoreactive band is observed around ~76kDa (lane 1). This band is blocked by pre-incubation with immunizing peptide (Lane 2).

REFERENCES

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