

DESCRIPTION

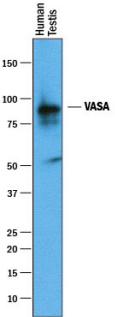
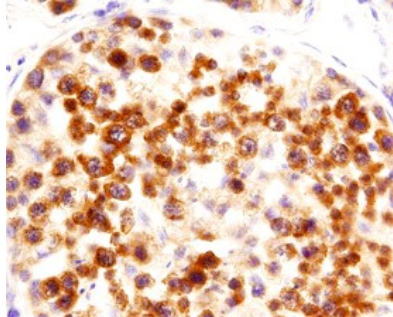
Species Reactivity	Human
Specificity	Detects human VASA in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human VASA Met1-Tyr145 Accession # Q9NQI0
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p> 	<p>Detection of Human VASA by Western Blot. Western blot shows lysates of human testis tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human VASA Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2030) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for VASA at approximately 85 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p>  <p>VASA in Human Testis. VASA was detected in paraffin-embedded sections of human testis using Goat Anti-Human VASA Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2030) at 10 µg/mL overnight at 4 °C. Before incubation with the primary antibody tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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 (1-3).

References:

1. Zeeman, A.M. *et al.* (2002) *Lab Invest.* **82**:159.
2. Raz, E. (2000) *Genome Biol.* **1**:REVIEWS1017.
3. Castrillon, D. *et al.* (2001) *Proc. Natl. Acad. Sci. USA* **97**:9585.