Human VASA Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF2030

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human VASA in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-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 either lyophilized or as a 0.2 µm filtered solution in PBS.

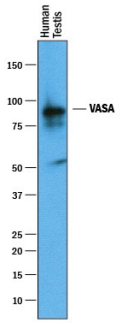
APPLICATIONS

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

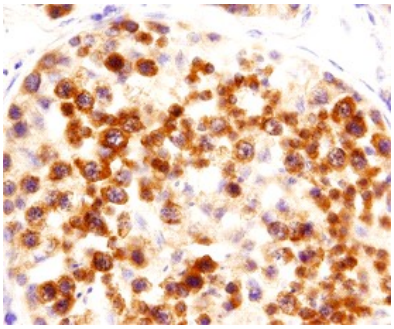
DATA

Western Blot



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.

Immunohistochemistry



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.

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.** ● 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.

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