ZAR1 (E-18): sc-55996



The Power to Question

BACKGROUND

Oocytes are female gametes that are critical in post-ovulation events such as ovarian folliculogenesis, fertilization and embryogenesis. ZAR1 (zygote arrest 1) is an oocyte-specific maternal effect factor that is localized to the cyto-plasm and is expressed in ovary and testes. Essential in the oocyte-to-embryo transition, ZAR1 is an evolutionary conserved protein that is responsible for female fertility and may play a role in transcriptional regulation. In mice, null expression of ZAR1 results in infertility, suggesting that ZAR1 plays a key role in both the initiation of embryonic development and in fertility control in mammals. ZAR1 is 424 amino acids in length and, like its mouse homolog, has an atypical PHD motif at its C-terminus.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ZAR1 (human) mapping to 4p11; Zar1 (mouse) mapping to 5 C3.2.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

SOURCE

ZAR1 (E-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ZAR1 of human origin.

PRODUCT

Each vial contains 200 μg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-55996 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZAR1 (E-18) is recommended for detection of ZAR1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ZAR1 siRNA (h): sc-63233.

Molecular Weight of ZAR1: 45 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

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