

SPAG11A/B (K-13): sc-103236

BACKGROUND

SPAG11B (sperm associated antigen 11B), also known as EP2 or HE2, is a 103 amino acid precursor protein that exists as four alternatively spliced isoforms, designated EP2A, EP2B, EP2C and EP2D, all of which are androgen-dependent, epididymis-specific secretory proteins that may play a role in sperm maturation and overall function. The gene encoding the SPAG11B precursor maps to a region on chromosome 8 that is near the β -defensin gene cluster and it is suggested that SPAG11B may exhibit functional characteristics (such as antimicrobial activity) that are similar to β -defensins. Human chromosome 8, on which the SPAG11B gene is localized, consists of nearly 146 million base pairs and houses more than 800 genes, some of which are associated with a variety of diseases and malignancies.

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CHROMOSOMAL LOCATION

Genetic locus: SPAG11B (human) mapping to 8p23.1, SPAG11A (human) mapping to 8p23.1.

RESEARCH USE

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

SOURCE

SPAG11A/B (K-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SPAG11B of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-103236 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SPAG11A/B (K-13) is recommended for detection of SPAG11B and SPAG11A 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); non cross-reactive with other SPAG proteins.

Molecular Weight of SPAG11A/B: 4 kDa.

Positive Controls: human fetal muscle tissue extract.

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.

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.