SPAG8 (T-12): sc-165535



The Power to Overtin

BACKGROUND

SPAG8 (sperm-associated antigen 8) is a 426 amino acid protein that exists as 2 alternatively spliced isoforms and localizes to the acrosome. As a result of its interaction with Ran BPM, SPAG8 may play a role in fertility and microtubule formation. While highly expressed in testis, SPAG8 has no expression in liver, kidney, prostate or small intestine. The gene that encodes SPAG8 consists of approximately 4,488 bases and maps to human chromosome 9p13.3. Housing over 900 genes, chromosome 9 comprises nearly 4% of the human genome. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects and Familial dysautonomia, are both associated with chromosome 9. Mutations in DFNB31, located on human chromosome 9, are associated with Usher syndrome type 2, which is characterized by severe rod-cone dystrophy and varying degrees of hearing impairment. Notably, chromosome 9 encompasses the largest interferon family gene cluster.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SPAG8 (human) mapping to 9p13.3.

SOURCE

SPAG8 (T-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SPAG8 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-165535 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SPAG8 (T-12) is recommended for detection of SPAG8 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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 family members.

Suitable for use as control antibody for SPAG8 siRNA (h): sc-92788, SPAG8 shRNA Plasmid (h): sc-92788-SH and SPAG8 shRNA (h) Lentiviral Particles: sc-92788-V.

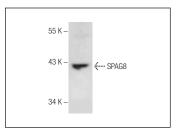
Molecular Weight of SPAG8 isoforms: 45/54 kDa.

Positive Controls: Human kidney extract: sc-363764.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



SPAG8 (T-12): sc-165535. Western blot analysis of SPAG8 expression in human kidney tissue extract.

STORAGE

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

RESEARCH USE

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