# SKAP (S-18): sc-245336



The Power to Question

## **BACKGROUND**

Interactions between kinetochore and spindle microtubules play a critical role in chromosome segregation during mitosis. SKAP (small kinetochore associated protein), also known as KNSTRN (kinetochore-localized astrin/SPAG5 binding protein), HSD11, SKAP or TRAF4AF1, is a 316 widely expressed nuclear and cytoplasmic protein that is an essential component of the mitotic spindle. Required for chromosome alignment during mitosis, SKAP regulates metaphase-to-anaphase transition, promotes normal timing of sister chromatid segregation and maintains spindle pole architecture. SKAP forms a complex with SPAG5 localizes to microtubule ends and stabilizes microtubule-kinetochore attachments. Mutations in the gene encoding SKAP may lead to cutaneous squamous cell carcinomas, a malignancy of the skin. SKAP is encoded by a gene located on human chromosome 15q15.1 and exists as three alternatively spliced isoforms. SKAP is down-regulated by nitric oxide.

## **REFERENCES**

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## CHROMOSOMAL LOCATION

Genetic locus: KNSTRN (human) mapping to 15q15.1.

## SOURCE

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

## **STORAGE**

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

#### **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-245336 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## **APPLICATIONS**

SKAP (S-18) is recommended for detection of SKAP 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).

SKAP (S-18) is also recommended for detection of SKAP in additional species, including equine.

Suitable for use as control antibody for SKAP siRNA (h): sc-90222, SKAP shRNA Plasmid (h): sc-90222-SH and SKAP shRNA (h) Lentiviral Particles: sc-90222-V.

Molecular Weight of SKAP: 35 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.

## **PROTOCOLS**

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

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