SANTA CRUZ BIOTECHNOLOGY, INC.

SKAP55 (N-19): sc-9175

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The Power to Question

BACKGROUND

Fyb (Fyn binding protein) and the anchoring proteins SKAP55 and SKAP55-R (SKAP55-related protein) associate with the tyrosine kinase p59fyn. SKAP55 and SKAP55-R bind to Fyb through their SH3 domains and function as sub-strates for p59Fyn in resting T cells. SKAP55 contains an N-terminal pleckstrin homology domain and a C-terminal SH3 domain binding motif of adjacent arginine and lysine residues followed by tandem tyrosines (i.e. RKxxYxxY). SKAP55-R, similar in overall structure to SKAP55, contains a coiled-coil N-terminal domain. SKAP55 associates with SLAP-130, another component of the Fyn complex, which plays a role in the regulation of sig-naling events initiated by lymphocyte antigen re-ceptors leading up to T cell activation. The human SKAP55 gene maps to chromosome 17q21.32 and encodes a 359 amino acid protein.

CHROMOSOMAL LOCATION

Genetic locus: SCAP1 (human) mapping to 17q21.32; Scap1 (mouse) mapping to 11 D.

SOURCE

SKAP55 (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of SKAP55 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-9175 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

SKAP55 (N-19) is recommended for detection of SKAP55 of mouse, rat and 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).

SKAP55 (N-19) is also recommended for detection of SKAP55 in additional species, including canine.

Suitable for use as control antibody for SKAP55 siRNA (h): sc-40599, SKAP55 siRNA (m): sc-153475, SKAP55 shRNA Plasmid (h): sc-40599-SH, SKAP55 shRNA Plasmid (m): sc-153475-SH, SKAP55 shRNA (h) Lentiviral Particles: sc-40599-V and SKAP55 shRNA (m) Lentiviral Particles: sc-153475-V.

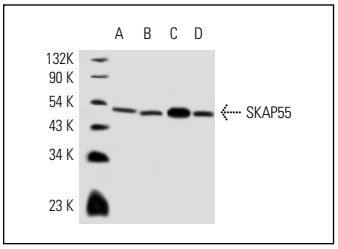
Molecular Weight of SKAP55: 55 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, mouse thymus extract: sc-2406 or rat thymus extract: sc-2401.

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) Immunoprecip-itation: 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



SKAP55 (N-19): sc-9175. Western blot analysis of SKAP55 expression in Jurkat (**A**), SUP-T1 (**B**), TK-1 (**C**) whole cell lysates and mouse thymus tissue extract (**D**).

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.

MONOS Satisfaction Guaranteed

Try **SKAP55 (E-8): sc-390458** or **SKAP55 (35): sc-136068**, our highly recommended monoclonal alternatives to SKAP55 (N-19).