

SAPS1 (V-14): sc-109864

BACKGROUND

SAPS1 (SAPS domain family, member 1), also known as PP6R1 or SAP190, is a 943 amino acid protein that localizes to the cytoplasm and exists as multiple alternatively spliced isoforms. Expressed ubiquitously with notably higher expression in testis, SAPS1 functions as a regulatory subunit of the heterotrimeric protein phosphatase 6 (PP6) complex and is thought to play a role in protein scaffolding related to the PP6 complex. The gene encoding SAPS1 maps to human chromosome 19, which consists of over 63 million bases, houses approximately 1,400 genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin (Ig) superfamily members, including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family and Fc receptors (Fc Rs). Key genes for eye color and hair color also map to chromosome 19.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SAPS1 (human) mapping to 19q13.42; Saps1 (mouse) mapping to 7 A1.

SOURCE

SAPS1 (V-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of SAPS1 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-109864 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SAPS1 (V-14) is recommended for detection of SAPS1 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); non cross-reactive with SAPS2.

SAPS1 (V-14) is also recommended for detection of SAPS1 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for SAPS1 siRNA (h): sc-97773, SAPS1 siRNA (m): sc-106531, SAPS1 shRNA Plasmid (h): sc-97773-SH, SAPS1 shRNA Plasmid (m): sc-106531-SH, SAPS1 shRNA (h) Lentiviral Particles: sc-97773-V and SAPS1 shRNA (m) Lentiviral Particles: sc-106531-V.

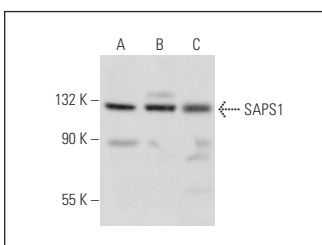
Molecular Weight of SAPS1: 103 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, mouse testis extract: sc-2405 or HEK293 whole cell lysate: sc-45136.

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



SAPS1 (V-14): sc-109864. Western blot analysis of SAPS1 expression in HeLa (A) and HEK293 (B) whole cell lysates and mouse testis tissue extract (C).

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.