

SAPS2 (H-3): sc-376678

BACKGROUND

SAPS2 (SAPS domain family, member 2), also known as PP6R2, KIAA0685 or SAP190, is a 966 amino acid protein that localizes to the cytoplasm and exists as multiple alternatively spliced isoforms. Expressed ubiquitously with strongest levels present in testis, heart, liver, brain, kidney and placenta, SAPS2 functions as a regulatory subunit of the PP6 (protein phosphatase 6) holoenzyme that may play a role in protein scaffolding and $\kappa\text{B-}\epsilon$ degradation. The gene encoding SAPS2 maps to human chromosome 22, which houses over 500 genes and is the second smallest human chromosome. Mutations in several of the genes that map to chromosome 22 are involved in the development of Phelan-McDermid syndrome, Neurofibromatosis type 2, autism and schizophrenia.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PPP6R2 (human) mapping to 22q13.33; Ppp6r2 (mouse) mapping to 15 E3.

SOURCE

SAPS2 (H-3) is a mouse monoclonal antibody raised against amino acids 488-530 mapping within an internal region of SAPS2 of human origin.

PRODUCT

Each vial contains 200 μg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RESEARCH USE

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

APPLICATIONS

SAPS2 (H-3) is recommended for detection of SAPS2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for SAPS2 siRNA (h): sc-76450, SAPS2 siRNA (m): sc-76451, SAPS2 shRNA Plasmid (h): sc-76450-SH, SAPS2 shRNA Plasmid (m): sc-76451-SH, SAPS2 shRNA (h) Lentiviral Particles: sc-76450-V and SAPS2 shRNA (m) Lentiviral Particles: sc-76451-V.

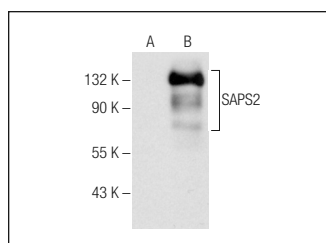
Molecular Weight of SAPS2: 105 kDa.

Positive Controls: SAPS2 (h4): 293T Lysate: sc-116404.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 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 m-IgG κ BP-FITC: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

DATA



SAPS2 (H-3): sc-376678. Western blot analysis of SAPS2 expression in non-transfected: sc-117752 (A) and human SAPS2 transfected: sc-116404 (B) 293T whole cell lysates.

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 for detailed protocols and support products.