SANTA CRUZ BIOTECHNOLOGY, INC.

SAPS2 (h4): 293T Lysate: sc-116404

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 IκB-ε 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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7. Stefansson, B., Ohama, T., Daugherty, A.E. and Brautigan, D.L. 2008. Protein phosphatase 6 regulatory subunits composed of ankyrin repeat domains. Biochemistry 47: 1442-1451.

CHROMOSOMAL LOCATION

Genetic locus: SAPS2 (human) mapping to 22q13.33.

PRODUCT

SAPS2 (h4): 293T Lysate represents a lysate of human SAPS2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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

APPLICATIONS

SAPS2 (h4): 293T Lysate is suitable as a Western Blotting positive control for human reactive SAPS2 antibodies. Recommended use: 10-20 µl per lane.

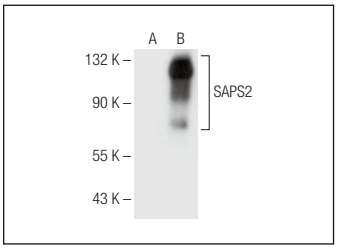
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

SAPS2 (C-5): sc-376238 is recommended as a positive control antibody for Western Blot analysis of enhanced human SAPS2 expression in SAPS2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

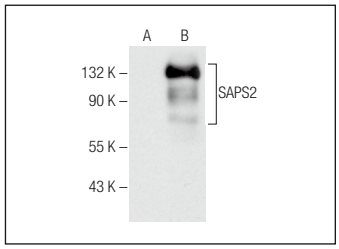
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ 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.

DATA



SAPS2 (C-5): sc-376238. Western blot analysis of SAPS2 expression in non-transfected: sc-117752 (**A**) and human SAPS2 transfected: sc-116404 (**B**) 293T whole cell lysates.



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.

RESEARCH USE

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