

Rap 2C (m2): 293T Lysate: sc-122971

BACKGROUND

Ras oncogenes encode GTP-binding proteins that are capable of transforming immortalized cells in culture. Two Ras-related human genes, designated RAP1A and RAP1B, encode 95% homologous proteins (namely Rap 1A and Rap 1B) that share a similar C-terminal Cys-Ali-Ali-Xaa sequence with Ras proteins and are ubiquitously expressed in mammalian tissues. The putative "effector" domain of Ras proteins, whose integrity is required for cell transformation as well as interaction with the putative effector protein GAP, is conserved in both Rap 1 proteins. Rap 1A is thought to interfere with Ras effector function by binding to Ras GAP in a GTP-dependent manner without affecting Rap 1A GTPase activity. The Rap 2 proteins, designated Rap 2A, Rap 2B and Rap 2C, share similarity with Rap 1A and may be involved in gene regulation relating to cell growth, differentiation and apoptosis.

REFERENCES

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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.

CHROMOSOMAL LOCATION

Genetic locus: Rap2c (mouse) mapping to X A5.

PRODUCT

Rap 2C (m2): 293T Lysate represents a lysate of mouse Rap 2C transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Rap 2C (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Rap 2C 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.

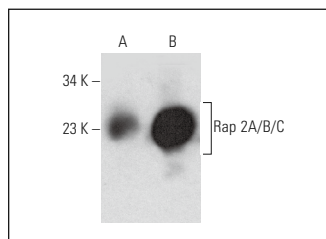
Rap 2A/B/C (C-2): sc-515711 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Rap 2C expression in Rap 2C transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

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



Rap 2A/B/C (C-2): sc-515711. Western blot analysis of Rap 2C expression in non-transfected: sc-117752 (A) and mouse Rap 2C transfected: sc-122971 (B) 293T whole cell lysates.

RESEARCH USE

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