

RAP1 (m): 293T Lysate: sc-122972

BACKGROUND

Rap1, also known as TERF2IP (telomeric repeat-binding factor 2-interacting protein 1) or DRIP5, is a 399 amino acid nuclear and cytoplasmic protein that contains one BRCT domain and one Myb-like domain. Belonging to the Rap1 family, Rap1 acts as both a regulator of telomere function and a regulator of transcription. While it does not bind DNA directly, Rap1 is recruited to telomeric double-stranded 5'-TTAGGG-3' repeats via its interaction with TRF2. Rap1 is required to negatively regulate telomere recombination and is essential for repressing homology-directed repair (HDR), which can affect telomere length. The gene that encodes Rap1 maps to human chromosome 16q23.1 and mouse chromosome 8 E1.

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.

CHROMOSOMAL LOCATION

Genetic locus: Terf2ip (mouse) mapping to 8 E1.

PRODUCT

RAP1 (m): 293T Lysate represents a lysate of mouse RAP1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

RAP1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive RAP1 antibodies. Recommended use: 10-20 µl per lane.

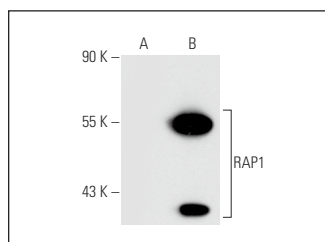
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RAP1 (5G7): sc-47695 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse RAP1 expression in RAP1 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



RAP1 (5G7): sc-47695. Western blot analysis of RAP1 expression in non-transfected: sc-117752 (A) and mouse RAP1 transfected: sc-122972 (B) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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