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Raf-1 (h): 293 Lysate: sc-158911

BACKGROUND

Several serine/threonine protein kinases have been implicated as intermediates in signal transduction pathways. These include ERK/MAP kinases, ribosomal S6 kinase (Rsk) and Raf-1. Raf-1 is a cytoplasmic protein with intrinsic serine/threonine activity. It is broadly expressed in nearly all cell lines tested to date and is the cellular homolog of v-Raf, the product of the transforming gene of the 3,611 strain of murine sarcoma virus. The unregulated kinase activity of the v-Raf protein has been associated with transformation and mitogenesis while the activity of Raf-1 is normally suppressed by a regulatory N-terminal domain. Raf-1 is activated in response to activation of a variety of tyrosine kinase receptors as well as in response to pp60v-Src expression. There is accumulating evidence that Ras p21 may play a role in activation of Raf-1 and may play the role of the messenger from membrane tyrosine kinases to Raf-1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RAF1 (human) mapping to 3p25.2.

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.

PRODUCT

Raf-1 (h): 293 Lysate represents a lysate of human Raf-1 transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Raf-1 (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive Raf-1 antibodies. Recommended use: 10-20 µl per lane.

Control 293 Lysate: sc-117760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

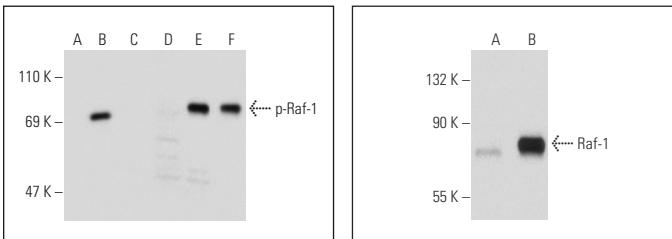
Raf-1 (540): sc-52827, is recommended as a positive control antibody for Western Blot analysis of enhanced human Raf-1 expression in Raf-1 transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG_x BP-HRP: sc-516102 or m-IgG_x 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



Western blot analysis of Raf-1 phosphorylation in non-transfected: sc-110760 (**A,D**), untreated human Raf-1 transfected: sc-158911 (**B,E**) and lambda protein phosphatase (sc-200312A) treated human Raf-1 transfected: sc-158911 (**C,F**) 293 whole cell lysates. Antibodies tested include p-Raf-1 (Ser 259); sc-101791 (**A,B,C**) and Raf-1 (540); sc-52827 (**D,E,F**).

Raf-1 (540): sc-52827. Western blot analysis of Raf-1 expression in non-transfected: sc-110760 (**A**) and human Raf-1 transfected: sc-158911 (**B**) 293 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.