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RAI3 (h): 293T Lysate: sc-158912

BACKGROUND

Retinoic acid-induced protein 3 (RAI3) is a transmembrane G protein-coupled receptor that affects many essential biological processes including embryogenesis, cell growth, differentiation and apoptosis. RAI3 may also be involved in maintaining homeostasis of epithelial cells. Retinoic acid receptors directly regulate RAI3 during its transcription in embryonal carcinoma differentiation. RAI3 expression is upregulated in most tumor cell lines that express mutant p53, suggesting that p53 interacts with the promoter of RAI3 and represses its expression at the beginning of apoptosis. RAI3 is a potential molecular target for diagnosing breast cancer; selective suppression of signals from RAI3 may have a place in breast cancer treatments.

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: GPRC5A (human) mapping to 12p13.1.

PRODUCT

RAI3 (h): 293T Lysate represents a lysate of human RAI3 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

RAI3 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive RAI3 antibodies. Recommended use: 10-20 µl per lane.

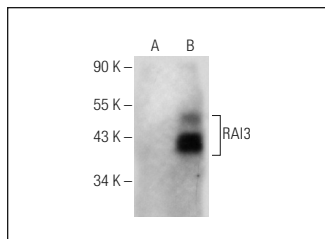
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RAI3 (A-11): sc-390263 is recommended as a positive control antibody for Western Blot analysis of enhanced human RAI3 expression in RAI3 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



RAI3 (A-11): sc-390263. Western blot analysis of RAI3 expression in non-transfected: sc-117752 (A) and human RAI3 transfected: sc-158912 (B) 293T whole cell lysates.

RESEARCH USE

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