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- Trockeneiszuschlag
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SANTA CRUZ BIOTECHNOLOGY, INC.

IFRD1 (m): 293T Lysate: sc-120958

BACKGROUND

Interferon-related developmental regulator-1 (IFRD1) gene is a human homolog of the rat PC4 gene initially isolated as a nerve growth factor-inducible sequence in PC12 cells. PC4 is present at high levels along the neural tube of early rat embryos. Expression of PC4 in the myoblast C2C12 cell line decreases within 6 hours from the onset of differentiation, attains a minimum after 12 hours, and returns to basal level within 36 hours; the transient down-regulation of PC4 expression can be prevented by transforming growth factor β, a molecule which inhibits the differentiation of muscle.

REFERENCES

1. Guardavaccaro, D., Ciotti, M.T., Schafer, B.W., Montagnoli, A. and Tirone, F. 1995. Inhibition of differentiation in myoblasts deprived of the interferon-related protein PC4. Cell Growth Differ. 6: 159-169.
2. Iacopetti, P., Barsacchi, G., Tirone, F. and Cremisi, F. 1996. Expression of the PC4 gene in the developing rat nervous system. Brain Res. 707: 293-297.
3. Buanne, P., Incerti, B., Guardavaccaro, D., Avvantaggiato, V., Simeone, A. and Tirone, F. 1998. Cloning of the human interferon-related developmental regulator (IFRD1) gene coding for the PC4 protein, a member of a novel family of developmentally regulated genes. Genomics 51: 233-242.
4. Online Mendelian Inheritance in Man, OMIM™. 1999. Johns Hopkins University, Baltimore, MD. MIM Number: 603502. World Wide Web URL: http://www.ncbi.nlm. nih.gov/omim/
5. LocusLink Report (LocusID: 3475). http://www.ncbi.nlm.nih.gov/LocusLink/

CHROMOSOMAL LOCATION

Genetic locus: Ifrd1 (mouse) mapping to 12 B1.

PRODUCT

IFRD1 (m): 293T Lysate represents a lysate of mouse IFRD1 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

IFRD1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive IFRD1 antibodies. Recommended use: 10-20 µl per lane.

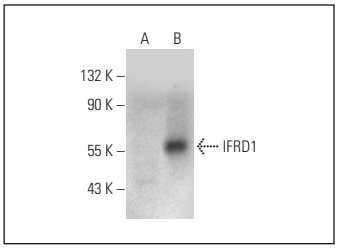
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

IFRD1 (D-7): sc-515012 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse IFRD1 expression in IFRD1 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



IFRD1 (D-7): sc-515012. Western blot analysis of IFRD1 expression in non-transfected: sc-117752 (**A**) and mouse IFRD1 transfected: sc-120958 (**B**) 293T whole cell lysates.

RESEARCH USE

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