

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 downregulation 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 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

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

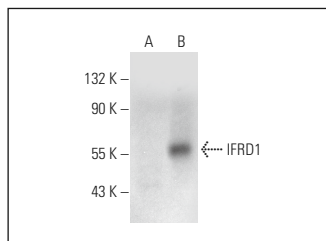
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ 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.

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.

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.

PROTOCOLS

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