

IFRD1 (H-89): sc-292159

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

- Guardavaccaro, D., et al. 1995. Inhibition of differentiation in myoblasts deprived of the interferon-related protein PC4. *Cell Growth Differ.* 6: 159-169.
- Iacopetti, P., et al. 1996. Expression of the PC4 gene in the developing rat nervous system. *Brain Res.* 707: 293-297.
- Buane, P., et al. 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.
- 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/>
- LocusLink Report (LocusID: 3475). <http://www.ncbi.nlm.nih.gov/LocusLink/>

CHROMOSOMAL LOCATION

Genetic locus: IFRD1 (human) mapping to 7q31.1; Ifrd1 (mouse) mapping to 12 B1

SOURCE

IFRD1 (H-89) is a rabbit polyclonal antibody raised against amino acids 161-249 mapping within an internal region of IFRD1 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-292159 X, 200 μ g/0.1 ml.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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

PROTOCOLS

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

APPLICATIONS

IFRD1 (H-89) is recommended for detection of IFRD1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

IFRD1 (H-89) is also recommended for detection of IFRD1 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for IFRD1 siRNA (h): sc-38015, IFRD1 siRNA (m): sc-38016, IFRD1 shRNA Plasmid (h): sc-38015-SH, IFRD1 shRNA Plasmid (m): sc-38016-SH, IFRD1 shRNA (h) Lentiviral Particles: sc-38015-V and IFRD1 shRNA (m) Lentiviral Particles: sc-38016-V.

IFRD1 (H-89) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of IFRD1: 53 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.



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Try **IFRD1 (D-7): sc-515012**, our highly recommended monoclonal alternative to IFRD1 (H-89).