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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# IFN- $\alpha$ / $\beta$ R $\beta$ (m): 293T Lysate: sc-120956

## BACKGROUND

The type I interferons, IFN- $\alpha$  and IFN- $\beta$ , are a group of structurally and functionally related proteins that are induced by either viruses or double-stranded RNA and are defined by their ability to confer an antiviral state in cells. IFN- $\alpha$  and IFN- $\beta$  appear to compete with one another for binding to a common cell surface receptor, while immune IFN (IFN- $\gamma$ ) binds to a distinct receptor. This distinct receptor, IFN- $\alpha$ R, is only weakly responsive to type I interferons, in contrast to IFN- $\alpha$ / $\beta$ R, which binds to and responds effectively to IFN- $\beta$  and to several of the IFN- $\alpha$  subtypes. IFN- $\alpha$ / $\beta$ R is expressed as two alternatively spliced transcripts, designated IFN- $\alpha$ / $\beta$ R $\alpha$  (IFN- $\alpha$ / $\beta$ R1) and IFN- $\alpha$ / $\beta$ R $\beta$  (IFN- $\alpha$ / $\beta$ R2), both of which are involved in signal transduction and ligand binding.

## REFERENCES

1. Branca, A.A. and Baglioni C. 1981. Evidence that type I and II interferons have different receptors. *Nature* 294: 768-770.
2. Orchansky, P., et al. 1984. Type I and type II interferon receptors. *J. Interferon Res.* 4: 275-282.
3. Novick, D., et al. 1987. The human interferon- $\gamma$  receptor, purification, characterization and preparation of antibodies. *J. Biol. Chem.* 262: 8483-8487.
4. Aguet, M., et al. 1988. Molecular cloning and expression of the human interferon- $\gamma$  receptor. *Cell* 55: 273-280.
5. Soh, J., et al. 1994. Identification and sequence of an accessory factor required for activation of the human interferon- $\gamma$  receptor. *Cell* 76: 793-802.
6. Hemmi, S., et al. 1994. A novel member of the interferon receptor family complements functionality of the murine interferon- $\gamma$  receptor in human cells. *Cell* 76: 803-810.
7. Novick, D., et al. 1994. The human interferon- $\alpha$ / $\beta$  receptor: characterization and molecular cloning. *Cell* 77: 391-400.
8. Online Mendelian Inheritance in Man, OMIM<sup>™</sup>. 1998. Johns Hopkins University, Baltimore, MD. MIM Number: 602376. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

## CHROMOSOMAL LOCATION

Genetic locus: *Ifnar2* (mouse) mapping to 16 C3.3.

## PRODUCT

IFN- $\alpha$ / $\beta$ R $\beta$  (m): 293T Lysate represents a lysate of mouse IFN- $\alpha$ / $\beta$ R $\beta$  transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## STORAGE

Store at -20 $^{\circ}$  C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## APPLICATIONS

IFN- $\alpha$ / $\beta$ R $\beta$  (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive IFN- $\alpha$ / $\beta$ R $\beta$  antibodies. Recommended use: 10-20  $\mu$ l per lane.

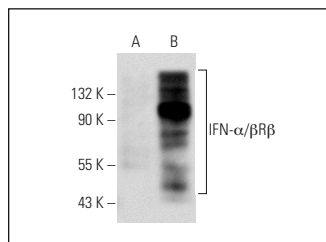
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

IFN- $\alpha$ / $\beta$ R $\beta$  (F-7): sc-137209 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse IFN- $\alpha$ / $\beta$ R $\beta$  expression in IFN- $\alpha$ / $\beta$ R $\beta$  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 $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



IFN- $\alpha$ / $\beta$ R $\beta$  (F-7): sc-137209. Western blot analysis of IFN- $\alpha$ / $\beta$ R $\beta$  expression in non-transfected: sc-117752 (A) and mouse IFN- $\alpha$ / $\beta$ R $\beta$  transfected: sc-120956 (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](http://www.scbt.com) for detailed protocols and support products.