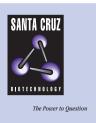
# SANTA CRUZ BIOTECHNOLOGY, INC.

# I-TAC (N-13): sc-34787



## BACKGROUND

IFN-inducible T cell  $\alpha$  chemoattractant (I-TAC, also designated  $\beta$ R1, H174, SCYB9B, Scyb11 (mouse), IP-9, or CXCL11) is a member of the CXC chemokine family and is expressed in IFN- $\gamma$ -treated astrocytes, monocytes, keratinocytes, bronchial epithelial cells and neutrophils. The molecular mass of I-TAC is calculated to be 9 kDa, and the gene encoding I-TAC maps to human chromosome 4q21.2. I-TAC and two related proteins, IFN-induced protein of 10 kDa (IP-10) and monokine induced by IFN- $\gamma$  (MIG), belong to the nonglutamate-leucine-arginine motif CXC chemokine family and act solely through the CXCR-3 receptor for potent attraction of T lymphocytes. I-TAC is assumed to be involved in inflammatory diseases characterized by the presence of activated T cells.

## REFERENCES

- Mach, F., Sauty, A., Iarossi, A.S., Sukhova, G.K., Neote, K., Libby, P. and Luster, A.D. 1999. Differential expression of three T lymphocyte-activating CXC chemokines by human atheroma-associated cells. J. Clin. Invest. 104: 1041-1050.
- Tensen, C.P., Flier, J., Rampersad, S.S., Sampat-Sardjoepersad, S., Scheper, R.J., Boorsma, D.M. and Willemze, R. 1999. Genomic organization, sequence and transcriptional regulation of the human CXCL11(1) gene. Biochim. Biophys. Acta 1446: 167-172.
- 3. Meyer, M., Erdel, M., Duba, H.C., Werner, E.R. and Werner-Felmayer, G. 2000. Cloning, genomic sequence and chromosome mapping of Scyb11, the murine homologue of SCYB11 (alias  $\beta$ R1/H174/SCYB9B/I-TAC/IP-9/CXCL11). Cytogenet. Cell Genet. 88: 278-282.
- Mazanet, M.M., Neote, K. and Hughes, C.C. 2000. Expression of IFNinducible T cell α chemoattractant by human endothelial cells is cyclosporin A-resistant and promotes T cell adhesion: implications for cyclosporin A-resistant immune inflammation. J. Immunol. 164: 5383-5388.
- Albanesi, C., Scarponi, C., Sebastiani, S., Cavani, A., Federici, M., De Pita, O., Puddu, P. and Girolomoni, G. 2000. IL-4 enhances keratinocyte expression of CXCR-3 agonistic chemokines. J. Immunol. 165: 1395-1402.

## CHROMOSOMAL LOCATION

Genetic locus: CXCL11 (human) mapping to 4q21.2; Cxcl11 (mouse) mapping to 5 E3.

## SOURCE

I-TAC (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of I-TAC of human origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-34787 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

I-TAC (N-13) is recommended for detection of I-TAC of human and, to a lesser extent, mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for I-TAC siRNA (h): sc-45530.

Molecular Weight of I-TAC: 9 kDa.

#### **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluo-rescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## **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.