

# I-TAC (C-12): sc-34784

## 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 non-glutamate-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

1. Mach, F., et al. 1999. Differential expression of three T lymphocyte-activating CXC chemokines by human atheroma-associated cells. *J. Clin. Invest.* 104: 1041-1050.
2. Tensen, C.P., et al. 1999. Genomic organization, sequence and transcriptional regulation of the human CXCL11(1) gene. *Biochim. Biophys. Acta* 1446: 167-172.
3. Meyer, M., et al. 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.
4. Mazanet, M.M., et al. 2000. Expression of IFN-inducible T cell  $\alpha$  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.

## CHROMOSOMAL LOCATION

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

## SOURCE

I-TAC (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-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-34784 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## 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.

## APPLICATIONS

I-TAC (C-12) is recommended for detection of I-TAC of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ 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).

Suitable for use as control antibody for I-TAC siRNA (h): sc-45530, I-TAC siRNA (m): sc-39355, I-TAC shRNA Plasmid (h): sc-45530-SH, I-TAC shRNA Plasmid (m): sc-39355-SH, I-TAC shRNA (h) Lentiviral Particles: sc-45530-V and I-TAC shRNA (m) Lentiviral Particles: sc-39355-V.

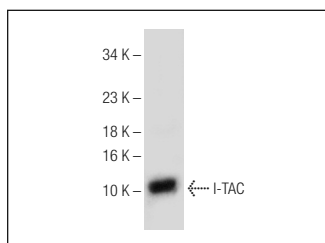
Molecular Weight of I-TAC: 9 kDa.

Positive Controls: mouse brain extract: sc-2253.

## 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: 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.

## DATA



I-TAC (C-12): sc-34784. Western blot analysis of mouse recombinant I-TAC.

## SELECT PRODUCT CITATIONS

1. Lo, B.K., et al. 2010. CXCR3/ligands are significantly involved in the tumorigenesis of basal cell carcinomas. *Am. J. Pathol.* 176: 2435-2446.

**MONOS**  
Satisfaction  
Guaranteed

Try **I-TAC (R-15): sc-74094**, our highly recommended monoclonal alternative to I-TAC (C-12).