

# I-TAC (M-17): sc-17205

## BACKGROUND

IFN- $\gamma$ -inducible T cell  $\alpha$  chemoattractant (I-TAC), also designated  $\beta$ R1, H174, SCYB9B, Scyb11 (mouse), IP-9, or CXCL11, is a member of the C-X-C chemokine family and is expressed in IFN- $\gamma$ -treated astrocytes, monocytes, keratinocytes, bronchial epithelial cells and neutrophils. The gene encoding I-TAC maps to human chromosome 4q21.2. I-TAC and two related proteins, IP-10 (IFN-induced protein of 10 kDa) 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

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- Mazanet, M.M., Neote, K. and Hughes, C.C. 2000. Expression of IFN- $\gamma$ -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.
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## CHROMOSOMAL LOCATION

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

## SOURCE

I-TAC (M-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of I-TAC of mouse 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-17205 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## RESEARCH USE

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

## APPLICATIONS

I-TAC (M-17) is recommended for detection of I-TAC of mouse, rat and, to a lesser extent, 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).

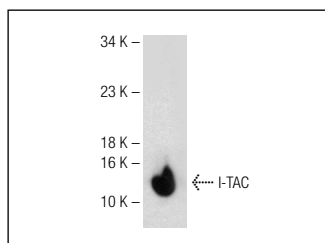
Suitable for use as control antibody for I-TAC siRNA (m): sc-39355, I-TAC shRNA Plasmid (m): sc-39355-SH and I-TAC shRNA (m) Lentiviral Particles: sc-39355-V.

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) 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 (M-17): sc-17205. Western blot analysis of mouse recombinant I-TAC.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **I-TAC (R-15): sc-74094**, our highly recommended monoclonal alternative to I-TAC (M-17).