SANTA CRUZ BIOTECHNOLOGY, INC.

# I-TAC (A-15): sc-17204

SANTA CRUZ BIOTECHNOLOGY

*The Power to Question*

## BACKGROUND

IFN-inducible T cell α chemoattractant (I-TAC), also designated βR1, H174, SCYB9B, Scyb11 (mouse), IP-9 or CXCL11, is a member of the CXC chemokine family and is expressed in IFN-γ-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, IFN-induced protein of 10 kDa (IP-10) and monokine induced by IFN-γ (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.


## CHROMOSOMAL LOCATION

Genetic locus: Cxcl11 (mouse) mapping to 5 E2.

## SOURCE

I-TAC (A-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of I-TAC of mouse origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-17204 P, (100 µg 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.

## APPLICATIONS

I-TAC (A-15) is recommended for detection of I-TAC of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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.

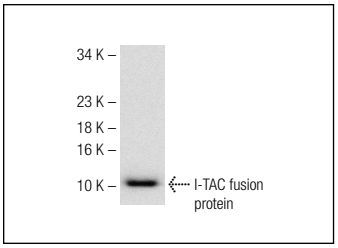
Molecular Weight of I-TAC: 9 kDa.

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 (A-15): sc-17204. Western blot analysis of mouse recombinant I-TAC fusion protein.

## SELECT PRODUCT CITATIONS


1. Di Carlo, E., et al. 2004. IL-21 induces tumor rejection by specific CTL and IFN-γ-dependent CXC chemokines in syngeneic mice. J. Immunol. 172: 1540-1547.
2. Di Carlo, E., et al. 2005. Immunological mechanisms elicited at the tumour site by lymphocyte activation gene-3 (LAG-3) versus IL-12: sharing a common Th1 anti-tumour immune pathway. J. Pathol. 205: 82-91.
3. Indraccolo, S., et al. 2007. Identification of genes selectively regulated by IFNs in endothelial cells. J. Immunol. 178: 1122-1135.


## 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.