

# ICSBP (H-70): sc-13043

## BACKGROUND

ICSBP (Interferon (IFN) consensus sequence-binding protein, Interferon regulatory factor 8; IRF-8) is a transcription factor that is important for IFN- $\gamma$ -mediated signaling during dendritic cell and macrophage differentiation. ICSBP physically interacts with TRAF6 (between amino acid residues 356 and 305), and this interaction of ICSBP with TRAF6 modulates TLR signaling and may contribute to the cross-talk between IFN- $\gamma$  and TLR signal pathways. ICSBP antagonizes Bcr/Abl by downregulation of Bcl-2. ICSBP is known to interact with chromatin, and bind PU.1 in macrophages. ICSBP belongs to the IFN regulatory factor (IRF) family that also includes IRF-1, IRF-2, and ISGF-3. These proteins are composed of a conserved DNA-binding domain in the N-terminal region and a divergent C-terminal region that serves as the regulatory domain. The IRF family proteins bind to the IFN-stimulated response element (ISRE) and regulate expression of IFN- $\alpha$  and IFN- $\beta$ .

## CHROMOSOMAL LOCATION

Genetic locus: IRF8 (human) mapping to 16q24.1; Irf8 (mouse) mapping to 8 E1.

## SOURCE

ICSBP (H-70) is a rabbit polyclonal antibody raised against amino acids 357-426 of ICSBP 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.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-13043 X, 200  $\mu$ g/0.1 ml.

## APPLICATIONS

ICSBP (H-70) is recommended for detection of ICSBP 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).

ICSBP (H-70) is also recommended for detection of ICSBP in additional species, including equine, canine and bovine.

Suitable for use as control antibody for ICSBP siRNA (h): sc-35630, ICSBP siRNA (m): sc-35631, ICSBP shRNA Plasmid (h): sc-35630-SH, ICSBP shRNA Plasmid (m): sc-35631-SH, ICSBP shRNA (h) Lentiviral Particles: sc-35630-V and ICSBP shRNA (m) Lentiviral Particles: sc-35631-V.

ICSBP (H-70) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of ICSBP: 48 kDa.

Positive Controls: ICSBP (m): 293T Lysate: sc-120937 or NAMALWA cell lysate: sc-2234.

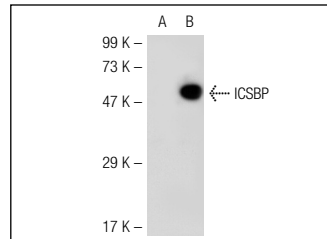
## RESEARCH USE

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

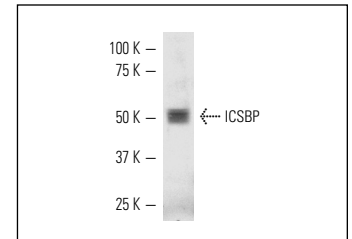
## STORAGE

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

## DATA



ICSBP (H-70): sc-13043. Western blot analysis of ICSBP expression in non-transfected: sc-117752 (A) and mouse ICSBP transfected: sc-120937 (B) 293T whole cell lysates.



ICSBP (H-70): sc-13043. Western blot analysis of ICSBP expression in NAMALWA whole cell lysate.

## SELECT PRODUCT CITATIONS

- Xiong, H., et al. 2003. Complex formation of the interferon (IFN) consensus sequence-binding protein with IRF-1 is essential for murine macrophage IFN- $\gamma$ -induced iNOS gene expression. *J. Biol. Chem.* 278: 2271-2277.
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- Zhang, Y., et al. 2008. Dynamic protein associations define two phases of IL-1 $\beta$  transcriptional activation. *J. Immunol.* 181: 503-512.
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- Ganley-Leal, L.M., et al. 2010. Differential regulation of TLR4 expression in human B cells and monocytes. *Mol. Immunol.* 48: 82-88.
- Jiang, D.S., et al. 2014. IRF8 suppresses pathological cardiac remodelling by inhibiting calcineurin signalling. *Nat. Commun.* 5: 3303.
- Zhang, S.M., et al. 2014. Interferon regulatory factor 8 modulates phenotypic switching of smooth muscle cells by regulating the activity of myocardin. *Mol. Cell. Biol.* 34: 400-414.

## PROTOCOLS

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



Try **ICSBP (E-9): sc-365042** or **ICSBP (F-9): sc-365041**, our highly recommended monoclonal alternatives to ICSBP (H-70).