

# **IkB-β (FL-359): sc-9130**

## **BACKGROUND**

On the basis of both functional and structural considerations, members of the IκB family of proteins can be divided into four groups. The first of these groups, IκB-α, includes the avian protein pp40 and the mammalian MAD-3, both of which inhibit binding of p50-p65 NFκB complex or Rel protein to their cognate binding sites but do not inhibit the binding of p50 homodimer to κB sites, suggesting that the IκB-α family binds to the p65 subunit of p50-p65 heterocomplex through Ankyrin repeats. The second member of the IκB family is represented by a protein designated IκB-β. The third group of IκB proteins is represented by IκB-γ, which is identical in sequence with the C-terminal domain of the p110 precursor of NFκB p50 and expressed predominantly in lymphoid cells. An additional IκB family member has been identified as IκB-ε, has several phosphorylated forms and is primarily found complexed with Rel A and/or c-Rel.

## **CHROMOSOMAL LOCATION**

Genetic locus: NFKB1B (human) mapping to 19q13.2; Nfkb1b (mouse) mapping to 7 A3.

## **SOURCE**

IκB-β (FL-359) is an affinity purified rabbit polyclonal antibody raised against amino acids 1-359 representing full length IκB-β 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.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-9130 X, 200 μg/0.1 ml.

## **APPLICATIONS**

IκB-β (FL-359) is recommended for detection of IκB-β of mouse, rat and human 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), immunohistochemistry (including paraffin-embedded sections) (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 IκB-β siRNA (h): sc-29362, IκB-β siRNA (m): sc-35623, IκB-β shRNA Plasmid (h): sc-29362-SH, IκB-β shRNA Plasmid (m): sc-35623-SH, IκB-β shRNA (h) Lentiviral Particles: sc-29362-V and IκB-β shRNA (m) Lentiviral Particles: sc-35623-V.

IκB-β (FL-359) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of IκB-β: 45 kDa.

Positive Controls: RAW 264.7 whole cell lysate: sc-2211, CTLL-2 cell lysate: sc-2242 or WEHI-3 cell lysate: sc-3815.

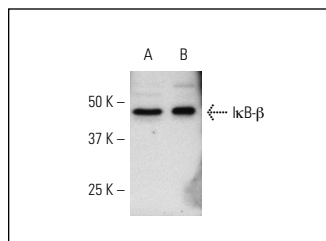
## **RESEARCH USE**

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

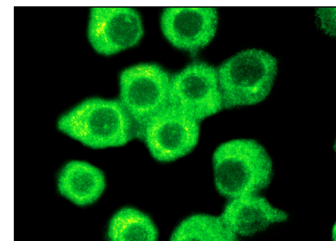
## **STORAGE**

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

## **DATA**



IκB-β (FL-359): sc-9130. Western blot analysis of IκB-β (FL-359) expression in RAW 264.7 (A) and CTLL-2 (B) whole cell lysates.



IκB-β (FL-359): sc-9130. Immunofluorescence staining of methanol-fixed RAW 264.7 cells showing cytoplasmic localization.

## **SELECT PRODUCT CITATIONS**

- Philip, S., et al. 2003. Osteopontin induces NFκB-mediated promatrix metalloproteinase-2 activation through IκB-α/IKK signaling pathways, and curcumin (diferulolylmethane) downregulates these pathways. *J. Biol. Chem.* 278: 14487-14497.
- Pallares, J., et al. 2004. Abnormalities in the NFκB family and related proteins in endometrial carcinoma. *J. Pathol.* 204: 569-577.
- Zbytek, B., et al. 2006. CRH inhibits NFκB signaling in human melanocytes. *Peptides* 27: 3276-3283.
- Radhakrishnan, S., et al. 2007. B7-DC/PD-L2 cross-linking induces NFκB-dependent protection of dendritic cells from cell death. *J. Immunol.* 178: 1426-1432.
- Calegari, V.C., et al. 2011. Inflammation of the hypothalamus leads to defective pancreatic islet function. *J. Biol. Chem.* 286: 12870-12880.

## **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 **IκB-β (D-3): sc-74451** or **IκB-β (F-9): sc-390622**, our highly recommended monoclonal alternatives to IκB-β (FL-359).