

RBP-J κ (H-50): sc-28713

BACKGROUND

Recombination signal binding protein J κ (RBP-J κ), also designated KBF2 or CBF1, is the mammalian homolog of the *Drosophila* suppressor of hairless [Su(H)], a protein involved in the development of the peripheral nervous system. RBP-J κ is ubiquitously expressed in mammalian tissues and is involved in the regulation of gene expression. RBP-J κ has been shown to directly interact with the intercellular domain of the cell surface receptor Notch 1. Proteolytically cleaved Notch 1 translocates to the nucleus, where it binds DNA-bound RBP-J κ and activates transcription of target genes. These genes include NF- κ B p52 and the Epstein-Barr virus (EBV) protein EBNA-2, both of which contain RBP-J κ binding sequences within their promoter regions.

CHROMOSOMAL LOCATION

Genetic locus: RBPJ (human) mapping to 4p15.2; Rbpj (mouse) mapping to 5 C1.

SOURCE

RBP-J κ (H-50) is a rabbit polyclonal antibody raised against amino acids 451-500 mapping at the C-terminus of RBP-J κ of human origin.

PRODUCT

Each vial contains 200 μ 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-28713 X, 200 μ g/0.1 ml.

APPLICATIONS

RBP-J κ (H-50) is recommended for detection of RBP-J κ of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ 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).

RBP-J κ (H-50) is also recommended for detection of RBP-J κ in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for RBP-J κ siRNA (h): sc-38214, RBP-J κ siRNA (m): sc-38215, RBP-J κ shRNA Plasmid (h): sc-38214-SH, RBP-J κ shRNA Plasmid (m): sc-38215-SH, RBP-J κ shRNA (h) Lentiviral Particles: sc-38214-V and RBP-J κ shRNA (m) Lentiviral Particles: sc-38215-V.

RBP-J κ (H-50) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of RBP-J κ : 56 kDa.

Positive Controls: RBP-J κ (h3): 293T Lysate: sc-177851, Ramos nuclear extract: sc-2153 or BJAB nuclear extract: sc-2145.

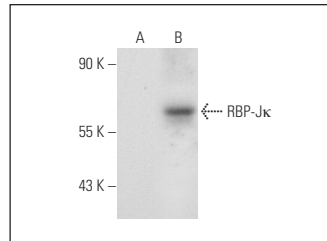
STORAGE

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.

DATA



RBP-J κ (H-50): sc-28713. Western blot analysis of RBP-J κ expression in non-transfected: sc-117752 (A) and human RBP-J κ transfected: sc-177851 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

- Doi, H., et al. 2006. Jagged1-selective notch signaling induces smooth muscle differentiation via a RBP-J κ -dependent pathway. *J. Biol. Chem.* 281: 28555-28564.
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- Albers, C.A., et al. 2012. Compound inheritance of a low-frequency regulatory SNP and a rare null mutation in exon-junction complex subunit RBM8A causes TAR syndrome. *Nat. Genet.* 44: 435-439.
- Pelullo, M., et al. 2014. Notch3/Jagged1 circuitry reinforces notch signaling and sustains T-ALL. *Neoplasia* 16: 1007-1017.



Try **RBP-J κ (E-7): sc-271128**, our highly recommended monoclonal alternative to RBP-J κ (H-50). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **RBP-J κ (E-7): sc-271128**.