

## RelB (H-200): sc-28689

### BACKGROUND

The NF $\kappa$ B transcription factor was originally identified as a protein complex consisting of a DNA binding subunit and an associated protein. The DNA binding subunit is functionally related to c-Rel p75 and RelB p68. The p50 subunit was initially believed to be a functionally unique protein derived from the amino terminus of a precursor designated p105. A second protein designated p52 (previously referred to as p49) has been identified that can act as an alternative NF $\kappa$ B subunit. RelB does not bind with high affinity to NF $\kappa$ B sites, but heterodimers between RelB and p50 bind with an affinity comparable to that of p50 NF $\kappa$ B homodimers. However, RelB/p50 heterodimers, in contrast to NF $\kappa$ B heterodimers, transactivates transcription of promoters containing  $\kappa$ B binding sites.

### CHROMOSOMAL LOCATION

Genetic locus: RELB (human) mapping to 19q13.32; Relb (mouse) mapping to 7 A3.

### SOURCE

RelB (H-200) is a rabbit polyclonal antibody raised against amino acids 380-579 mapping at the C-terminus of RelB 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-28689 X, 200  $\mu$ g/0.1 ml.

### STORAGE

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

### APPLICATIONS

RelB (H-200) is recommended for detection of RelB 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).

RelB (H-200) is also recommended for detection of RelB in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for RelB siRNA (h): sc-36402, RelB siRNA (m): sc-36403, RelB shRNA Plasmid (h): sc-36402-SH, RelB shRNA Plasmid (m): sc-36403-SH, RelB shRNA (h) Lentiviral Particles: sc-36402-V and RelB shRNA (m) Lentiviral Particles: sc-36403-V.

RelB (H-200) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

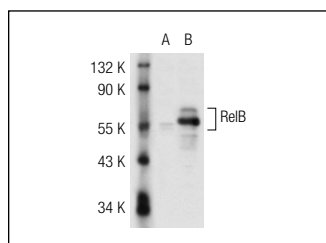
Molecular Weight of RelB: 68 kDa.

Positive Controls: KNRK nuclear extract: sc-2141, RelB (h): 293T Lysate: sc-114651 or KNRK whole cell lysate: sc-2214.

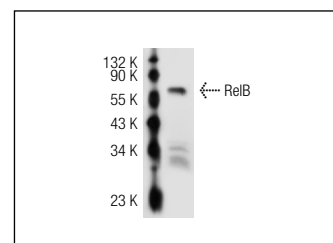
### RESEARCH USE

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

### DATA



RelB (H-200): sc-28689. Western blot analysis of RelB expression in non-transfected: sc-117752 (A) and human RelB transfected: sc-114651 (B) 293T whole cell lysates.



RelB (H-200): sc-28689. Western blot analysis of RelB expression in KNRK whole cell lysate.

### SELECT PRODUCT CITATIONS

- Jin, H.R., et al. 2010. Zinc-finger protein 91 plays a key role in LIGHT-induced activation of non-canonical NF $\kappa$ B pathway. *Biochem. Biophys. Res. Commun.* 400: 581-586.
- Antonaki, A., et al. 2011. Genomic analysis reveals a novel nuclear factor- $\kappa$ B (NF- $\kappa$ B)-binding site in Alu-repetitive elements. *J. Biol. Chem.* 286: 38768-38782.
- Charan, R.A., et al. 2012. Deubiquitinating enzyme A20 negatively regulates NF $\kappa$ B signaling in skeletal muscle in mdx mice. *FASEB J.* 26: 587-595.
- Charan, R.A., et al. 2012. Adeno-associated virus serotype 8 (AAV8) delivery of recombinant A20 to skeletal muscle reduces pathological activation of nuclear factor NF $\kappa$ B in muscle of mdx mice. *Mol. Med.* 18: 1527-1535.
- von Bauer, R., et al. 2013. CD166/ALCAM mediates proinflammatory effects of S100B in delayed type hypersensitivity. *J. Immunol.* 191: 369-377.

### PROTOCOLS

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



Try **RelB (D-4): sc-48366** or **RelB (C-4): sc-48379**, our highly recommended monoclonal alternatives to RelB (H-200). Also, for AC, HRP, FITC, PE, Alexa Fluor<sup>®</sup> 488 and Alexa Fluor<sup>®</sup> 647 conjugates, see **RelB (D-4): sc-48366**.