# RelB (C-4): sc-48379



The Power to Question

# **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 Rel B 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; it 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 hetero-dimers, in contrast to NF $\kappa$ B heterodimers, transactivates transcription of promotors containing  $\kappa$ B binding sites.

# **REFERENCES**

- Sen, R. and Baltimore, D. 1986. Multiple nuclear factors interact with the immunoglobulin enhancer sequences. Cell 46: 705-716.
- 2. Baeuerle, P.A. and Baltimore, D. 1989. A 65 kDa subunit of active NF $\kappa$ B is required for inhibition of NF $\kappa$ B by I $\kappa$ B. Genes Dev. 3: 1689-1698.
- 3. Gilmore, T. 1990. NFκB, κBFI dorsal and related matters. Cell 62: 841-843.
- 4. Ghosh, S., et al. 1990. Cloning of the p50 DNA binding subunit of NF $\kappa$ B: homology to rel and dorsal. Cell 62: 1019-1029.

# **CROMOSOMAL LOCATION**

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

# **SOURCE**

RelB (C-4) is a mouse monoclonal antibody raised against amino acids 380-579 of RelB of human origin.

# **PRODUCT**

Each vial contains 200  $\mu g \ lgG_1$  kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

# **APPLICATIONS**

RelB (C-4) 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), 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 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.

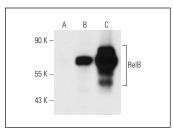
Molecular Weight of ReIB: 68 kDa.

Positive Controls: ReIB (h): 293T Lysate: sc-114651, NIH/3T3 whole cell lysate: sc-2210 or HeLa whole cell lysate: sc-2200.

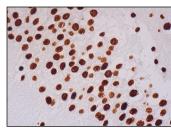
#### **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-lgG $\kappa$  BP-FITC: sc-516140 or m-lgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-lgG $\kappa$  BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

# **DATA**



RelB (C-4): sc-48379. Western blot analysis of RelB expression in non-transfected 293T: sc-117752 (A), human RelB transfected 293T: sc-114651 (B) and Hela (C) whole sell heads to be sell the state.



ReIB (C-4): sc-48379. Immunoperoxidase staining of formalin fixed, paraffin-embedded human hippocampus tissue showing nuclear staining of neuronal cells and elicil cells.

# **SELECT PRODUCT CITATIONS**

- 1. Xiao, X., et al. 2018. Guidance of super-enhancers in regulation of IL-9 induction and airway inflammation. J. Exp. Med. 215: 559-574.
- Shudofsky, A.M.D. and Giam, C.Z. 2019. Cells of adult T-cell leukemia evade HTLV-1 Tax/NFκB hyperactivation-induced senescence. Blood Adv. 3: 564-569.

#### **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.

# **PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.



See **ReIB (D-4):** sc-48366 for ReIB antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor<sup>®</sup> 488, 546, 594, 647, 680 and 790.