

RelB Monoclonal Antibody (clone C1E4), Rabbit

Store at -20°C

Catalog Number: A16672

Pub. No. MAN0009141 **Rev.** 1.00

Clonality: Monoclonal

Amount: 100 µL

Host/Class: Rabbit IgG

Reactivity: Human RelB

Species Reactivity: Human, Mouse, Rat, Monkey

Product Description

Transcription factors of the nuclear factor κ B (NF-κB)/Rel family play a pivotal role in inflammatory and immune responses (1,2). There are five family members in mammals: RelA, c-Rel, RelB, NF-κB1 (p105/p50), and NF-κB2 (p100/p52). Both p105 and p100 are proteolytically processed by the proteasome to produce p50 and p52, respectively. Rel proteins bind p50 and p52 to form dimeric complexes that bind DNA and regulate transcription. In unstimulated cells, NF-κB is sequestered in the cytoplasm by IκB inhibitory proteins (3-5). NF-κB-activating agents can induce the phosphorylation of IκB proteins, targeting them for rapid degradation through the ubiquitin-proteasome pathway and releasing NF-κB to enter the nucleus where it regulates gene expression (6-8). NIK and IKK α (IKK1) regulate the phosphorylation and processing of NF-κB2 (p100) to produce p52, which translocates to the nucleus (9-11).

Product Specifications

Immunogen:

A synthetic peptide corresponding to residues surrounding Ser424 of human RelB protein

Apparent MW:

70 kDa

Gene ID:

5971

Protein Accession No.:

Q01201

Clone/PAD:

C1E4

Isotype:

IgG

Lot:

See product label

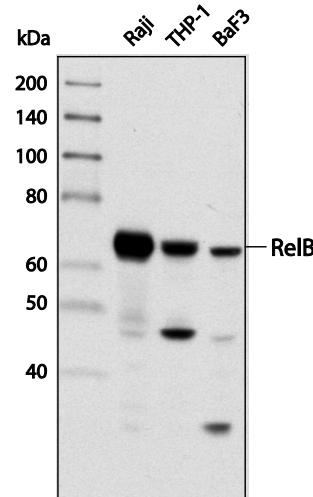


Figure 1 Western blot analysis of extracts from Raji, THP-1 and BaF3 cells using RelB Monoclonal Antibody.

Product Applications

Applications reported for this antibody include western blot, and immunoprecipitation.

Because conditions may vary, it is recommended that each investigator determine the optimal amount of antibody to be used for each application.

Application	Recommended Dilution
Western blotting	1:1000
Immunoprecipitation	1:100

Storage and Handling

Store reagents at -20°C. Avoid repeated freezing and thawing. Do not aliquot the antibody.

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

Storage Buffer

10 mM sodium HEPES (pH 7.5), 150 nM NaCl, 100 µg/mL BSA, 50% glycerol, <0.02% sodium azide.

References

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3. Haskill, S. et al. (1991) Cell 65, 1281-9.
4. Thompson, J.E. et al. (1995) Cell 80, 573-82.
5. Whiteside, S.T. et al. (1997) EMBO J 16, 1413-26.
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7. Scherer, D.C. et al. (1995) Proc Natl Acad Sci USA 92, 11259-63.
8. Chen, Z.J. et al. (1996) Cell 84, 853-62.
9. Senftleben, U. et al. (2001) Science 293, 1495-9.
10. Coope, H.J. et al. (2002) EMBO J 21, 5375-85.
11. Xiao, G. et al. (2001) Mol Cell 7, 401-9.

Product Documentation

To obtain a Certificate of Analysis or Safety Data Sheets (SDSs), visit www.lifetechnologies.com/support.

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Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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