

Product datasheet

Anti-Rel B antibody ab154957

[3 References](#) [6 Images](#)

Overview

Product name	Anti-Rel B antibody
Description	Rabbit polyclonal to Rel B
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ChIP, IP
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant protein fragment contain a sequence corresponding to a region within amino acids 354-528 of Human Rel B (Q01201).
Positive control	ChIP: THP-1 chromatin extract; WB: Jurkat, transfected HEK-293T, NIH 3T3 whole cell lysates; IHC-P: Human breast carcinoma tissue; IP: HeLa whole cell lysate.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab154957 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 62 kDa.
IHC-P		1/100 - 1/1000.
ChIP		Use at an assay dependent concentration.
IP		1/100 - 1/500.

Target**Function**

NF-kappa-B is a pleiotropic transcription factor which is present in almost all cell types and is involved in many biological processes such as inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. NF-kappa-B is a homo- or heterodimeric complex formed by the Rel-like domain-containing proteins RELA/p65, RELB, NFKB1/p105, NFKB1/p50, REL and NFKB2/p52. The dimers bind at kappa-B sites in the DNA of their target genes and the individual dimers have distinct preferences for different kappa-B sites that they can bind with distinguishable affinity and specificity. Different dimer combinations act as transcriptional activators or repressors, respectively. NF-kappa-B is controlled by various mechanisms of post-translational modification and subcellular compartmentalization as well as by interactions with other cofactors or corepressors. NF-kappa-B complexes are held in the cytoplasm in an inactive state complexed with members of the NF-kappa-B inhibitor (I-kappa-B) family. In a conventional activation pathway, I-kappa-B is phosphorylated by I-kappa-B kinases (IKKs) in response to different activators, subsequently degraded thus liberating the active NF-kappa-B complex which translocates to the nucleus. NF-kappa-B heterodimeric RelB-p50 and RelB-p52 complexes are transcriptional activators. RELB neither associates with DNA nor with RELA/p65 or REL. Stimulates promoter activity in the presence of NFKB2/p49.

Sequence similarities

Contains 1 RHD (Rel-like) domain.

Domain

Both N- and C-terminal domains are required for transcriptional activation.

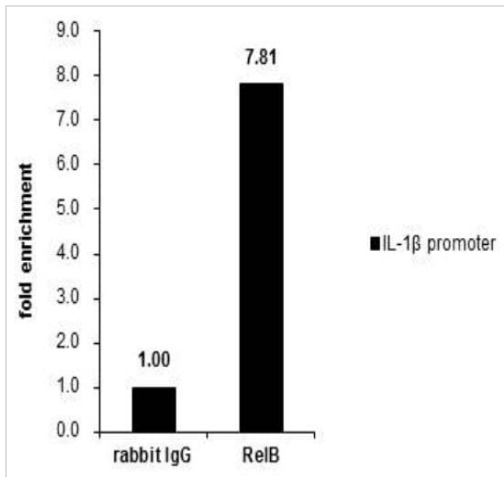
Post-translational modifications

Phosphorylation at 'Thr-103' and 'Ser-573' is followed by proteasomal degradation.

Cellular localization

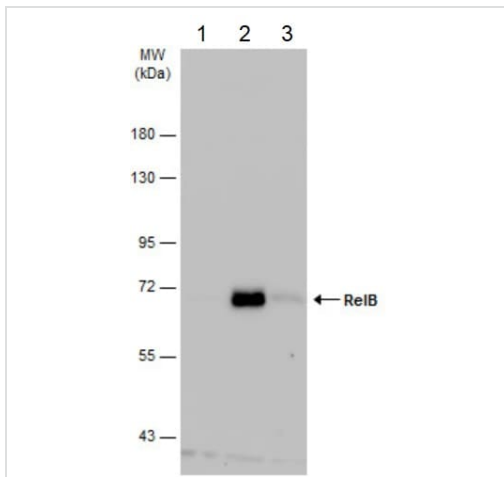
Nucleus. Cytoplasm > cytoskeleton > centrosome. Co-localizes with NEK6 in the centrosome.

Images



ChIP - Anti-Rel B antibody (ab154957)

Cross-linked ChIP was performed with THP-1 (human monocytic leukemia cell line) chromatin extract treated with LPS (1.0 µg/ml for 3 h) and 5 µg of either normal rabbit IgG or ab154957. The precipitated DNA was detected by PCR with primer set targeting to IL-1β promoter.



Western blot - Anti-Rel B antibody (ab154957)

All lanes : Anti-Rel B antibody (ab154957) at 1/10000 dilution

Lane 1 : Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate

Lane 2 : Raji (human Burkitt's lymphoma cell line) whole cell lysate

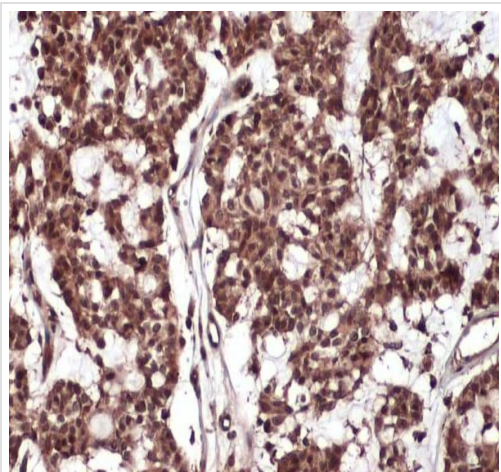
Lane 3 : NCI-H1299 (human lung carcinoma cell line) whole cell lysate

Lysates/proteins at 30 µg per lane.

Secondary

All lanes : HRP-conjugated anti-rabbit IgG antibody

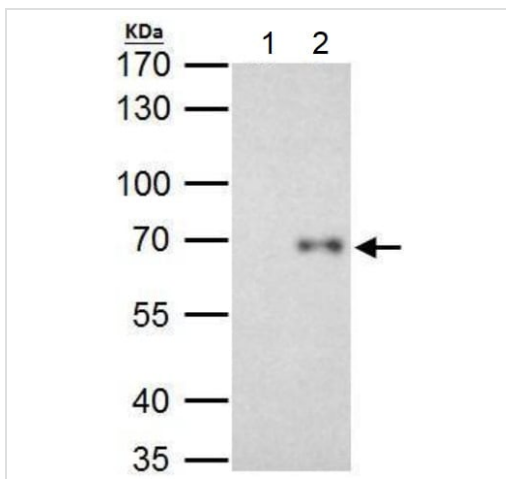
Predicted band size: 62 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rel B antibody (ab154957)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue staining Rel B at cytoplasm and nucleus with ab154957 at 1/500.

Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



Immunoprecipitation - Anti-Rel B antibody (ab154957)

RelB antibody immunoprecipitates RelB protein in IP experiments.

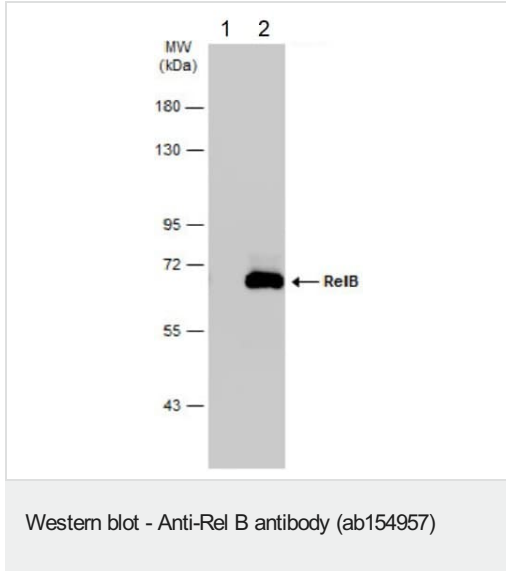
IP Sample: HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

A. Control with 2 µg of preimmune rabbit IgG

B. Immunoprecipitation of RelB protein by 2 µg of ab154957

7.5% SDS-PAGE

The immunoprecipitated RelB protein was detected by ab154957 at 1/1000 dilution, followed by anti-rabbit IgG antibody.



All lanes : Anti-Rel B antibody (ab154957) at 1/5000 dilution

Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

Lane 2 : Transfected HEK-293T whole cell lysate

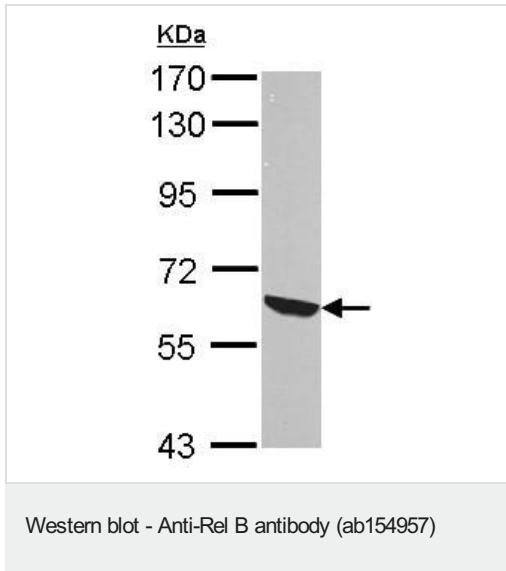
Lysates/proteins at 30 µg per lane.

Secondary

All lanes : HRP-conjugated anti-rabbit IgG antibody

Predicted band size: 62 kDa

7.5% SDS-PAGE



Anti-Rel B antibody (ab154957) at 1/10000 dilution + NIH/3T3 (mouse embryo fibroblast cell line) whole cell lysate at 30 µg

Secondary

HRP-conjugated anti-rabbit IgG antibody

Predicted band size: 62 kDa

7.5% SDS PAGE

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