

DESCRIPTION

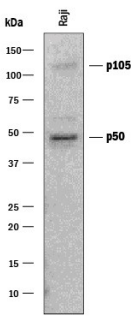

Species Reactivity	Human/Mouse
Specificity	Detects endogenous human and mouse NFκB1 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human NFκB1 Pro317-Asp437 Accession # NP_003989
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.5 μg/mL	See Below
Chromatin Immunoprecipitation (ChIP)	5 μg/5 x 10 ⁶ cells	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human NFκB1 by Western Blot. Western blot shows lysates of Raji human Burkitt's lymphoma cell line. PVDF membrane was probed with 0.5 μg/mL of Goat Anti-Human/Mouse NFκB1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2697) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). Specific bands were detected for NFκB1 at approximately 50 and 105 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Chromatin Immunoprecipitation (ChIP)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td colspan="2" style="text-align: center;">Jurkat</td> <td></td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">+</td> <td style="text-align: center;">Anti-NFκB1</td> </tr> <tr> <td style="text-align: center;">+</td> <td style="text-align: center;">-</td> <td style="text-align: center;">Goat IgG</td> </tr> </table>  <p>Detection of NFκB1-regulated Genes by Chromatin Immunoprecipitation. Jurkat human acute T cell leukemia cell line treated with 50 ng/mL PMA and 200 ng/mL calcium ionomycin overnight was fixed using formaldehyde, resuspended in lysis buffer, and sonicated to shear chromatin. NFκB1/DNA complexes were immunoprecipitated using 5 μg Goat Anti-Human/Mouse NFκB1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2697) or control antibody (Catalog # AB-108-C) for 15 minutes in an ultrasonic bath, followed by Biotinylated Anti-Goat IgG Secondary Antibody (Catalog # BAF109). Immunocomplexes were captured using 50 μL of MagCelect Streptavidin Ferrofluid (Catalog # MAG999) and DNA was purified using chelating resin solution. The <i>bcl-2</i> promoter was detected by standard PCR. This application has not been tested in mouse samples.</p>	Jurkat			-	+	Anti-NFκB1	+	-	Goat IgG
Jurkat										
-	+	Anti-NFκB1								
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Nuclear Factor kappa B1 (NFκB1 or NFκB p50) is a member of the rel/NFκB family of transcription factors. NFκB1 dimerizes with other members of the rel/NFκB family to regulate expression of genes that participate in immune, apoptotic, and oncogenic processes.