

Anti-NFKB p50 (NFKB1) (RABBIT) Antibody - 100-4164

Code: 100-4164

Size: 100 µL

Product Description: Anti-NFKB p50 (NFKB1) (RABBIT) Antibody - 100-4164

Concentration: 80 mg/mL by Refractometry

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Rabbit
Gene Name	NFKB1
Species Reactivity	human
Buffer	None
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Synonyms	rabbit Anti-NFKB p50 antibody, rabbit anti-NFKB1 antibody, NFKB, nfkb, NF-kB, NF-kappaB, NFkappaB
Application Note	This product was assayed by immunoblot and found to be reactive against Human NFkB p50 (NFKB1) at a dilution of 1:1000 followed by reaction with Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) code #611-1302. Anti- Human NFkB p50 (NFKB1) is suitable for the detection by immunoblot of Human NFkB p50 (NFKB1) and its precursor protein p105. No reaction was observed against the analogous mouse protein. This product was also tested in a gel supershift assay and found to be reactive against p50:p50 homodimers and p:50:p65 heterodimers using 0.5 to 1.0 µl per assay.
Background	Anti NFkB p50 Antibody recognizes NFkB p50 which is a component of NFkB. NFkB was originally identified as a factor that binds to the immunoglobulin kappa light chain enhancer in B cells. It was subsequently found in non-B cells in an inactive cytoplasmic form consisting of NFkB bound to IκB. NFkB was originally identified as a heterodimeric DNA binding protein complex consisting of p65 (RelA) and p50 (NFkB1) subunits. Other identified subunits include p52 (NFkB2), c-Rel, and RelB. The p65, cRel, and RelB subunits are responsible for transactivation. The p50 and p52 subunits possess DNA binding activity but limited ability to transactivate. p52 has been reported to form transcriptionally active heterodimers with the NFkB subunit p65, similar to p50/p65 heterodimers. The heterodimers of p52/p65 and p50/p65 are regulated by physical inactivation in the cytoplasm by IκB-α. IκB-α binds to the p65 subunit, preventing nuclear localization and DNA binding. Low levels of p52 and p50 homodimers can also exist in cells.
Purity And Specificity	This product was prepared from monospecific antiserum by delipidation and defibrination. Anti-Human NFkB p50 (NFKB1) may react non-specifically with other proteins. Control peptide (code #100-4164p) will compete only with the specific reaction of antiserum with Human NFkB p50 (NFKB1).
Assay Dilutions	User Optimized
ELISA	1:5,000 - 1:25,000
Western Blot	1:500 - 1:2,000
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	Human NFkB p50 (NFKB1) peptide corresponding to a region near the N-terminus of the human protein conjugated to Keyhole Limpet Hemocyanin (KLH).
Specific Reference	Ghosh M, Yang Y, Rothstein JD, Robinson MB. Nuclear factor-κB contributes to neuron-dependent induction of glutamate transporter-1 expression in astrocytes. J. Neurosci. 2011 Jun 22;31(25):9159-9169.
Related Products	
100-401-264	Anti-NFKB p65 (Rel A) pS276 (RABBIT) Antibody - 100-401-264
100-401-266	Anti-NFKB p65 (Rel A) pS529 (RABBIT) Antibody - 100-401-266

100-4164P NFKB p50 (NFKB1) CONTROL PEPTIDE - 100-4164P

100-4165 Anti-NFKB p65 (Rel A) (RABBIT) Antibody - 100-4165

Related Links

NCBI - CAB94757.1

<http://www.ncbi.nlm.nih.gov/protein/CAB94757.1>

UniProtKB - P19838 <http://www.uniprot.org/uniprot/P19838>

GeneID - 4790

<http://www.ncbi.nlm.nih.gov/gene/4790>

UniProtKB - Q9Y6Q6 <http://www.uniprot.org/uniprot/Q9Y6Q6>

GeneID - 8792

Images

1 Western Blot of Anti-NFKB p50 (NFKB1) Antibody. All incubations except color development were performed using TBS supplemented with 0.1% Tween-20 at room temperature. The membrane was blocked in 5% dry milk for 2 h. After washing, a 1:1,000 dilution of the primary antibody was added to the membrane and incubated for 2 h. Washes with buffer were performed 4 times for 5' each. The western blot was incubated with secondary antibody (HRP Goat-a-Rabbit IgG [H&L]) diluted 1:2,000 for 1 h. Washes with TBS preceded color development.



Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.