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# Datasheet for 100-4164S NFkB p50 Antibody

### **Overview**

Description:	Anti-NFKB p50 (NFKB1) (RABBIT) Antibody - 100-4164S
Item No.:	100-4164S
Size:	25 μL
Applications:	ELISA, WB, Biochemical Assay, EMSA
Reactivity:	Human
<b>Host Species:</b>	Rabbit

### **Product Details**

**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 IkB. 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 IkB-a. IkB-a binds to the p65 subunit, preventing nuclear localization and DNA binding. Low levels of p52 and p50 homodimers can

Synonyms: rabbit Anti-NFKB p50 antibody, rabbit anti-NFKB1 antibody, NFKB, nfkb, NF-kB, NF-kappaB,

NFkappaB

also exist in cells.

Host Species: Rabbit

Clonality: Polyclonal

Format: Antiserum

# **Target Details**

Gene Name: NFKB1

Reactivity: Human

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Immunogen Type:	Conjugated Peptide
Immunogen:	Human NFkB p50 (NFKB1) peptide corresponding to a region near the N-terminus of the human protein conjugated to Keyhole Limpet Hemocyanin (KLH).
Purity/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).
Relevant Links:	<ul> <li>UniProtKB - P19838</li> <li>NCBI - CAB94757.1</li> <li>GeneID - 4790</li> </ul>

# **Application Details**

<b>Tested Applications:</b>	ELISA, WB
Suggested Applications:	Biochemical Assay, EMSA (Based on references)
Application Note:	This product was tested by immunoblot and ELISA. Anti-Human NFkB p50 (NFKB1) is suitable for the detection by immunoblot of Human NFkB p50 (NFKB1) and its precursor protein p105, and was 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. 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 $\mu$ l per assay.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:25,000
WB:	1:500 - 1:2,000

### **Formulation**

Physical State:	Liquid (sterile filtered)
Concentration:	80 mg/ml by Refractometry
Buffer:	None
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

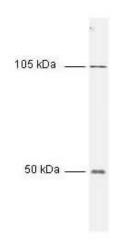
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### **Shipping & Handling**

<b>Shipping Condition:</b>	Dry Ice
Storage Condition:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 $\mu$ L). To minimize loss of volume dilute 1:10 by adding 225 $\mu$ L of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

### **Images**



#### **Western Blot**

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.

### References

- Hariri F et al. The eukaryotic translation initiation factor eIF4E is a direct transcriptional target of NF-κB and is aberrantly regulated in acute myeloid leukemia. *Leukimia* (2013)
- Renard P, Ernest I, Houbion A, et al. Development of a sensitive multi-well colorimetric assay for active NFkappaB. *Nucleic Acids Res.* (2001)

### Disclaimer

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