

For Research Use Only

# NFKB2,p100 Recombinant antibody

Catalog Number:84022-5-RR



## Basic Information

<b>Catalog Number:</b> 84022-5-RR	<b>GenBank Accession Number:</b> BC002844	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 4791	<b>CloneNo.:</b> 241126C9
<b>Source:</b> Rabbit	<b>ENSEMBL Gene ID:</b> ENSG00000077150	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> Q00653	
<b>Immunogen Catalog Number:</b> AG0662	<b>Full Name:</b> nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100)	
	<b>Calculated MW:</b> 97 kDa	
	<b>Observed MW:</b> 100-110 kDa	

## Applications

<b>Tested Applications:</b> WB, FC (Intra), ELISA	<b>Positive Controls:</b> WB : HeLa cells, K-562 cells, Jurkat cells, SKOV-3 cells, HL-60 cells
<b>Species Specificity:</b> human	

## Background Information

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. NFKB2 appears to have dual functions such as cytoplasmic retention of attached NF-kappa-B proteins by p100 and generation of p52 by a cotranslational processing. The proteasome-mediated process ensures the production of both p52 and p100 and preserves their independent function. P52 binds to the kappa-B consensus sequence 5'-GGRNNYYCC-3', located in the enhancer region of genes involved in immune response and acute phase reactions. P52 and p100 are respectively the minor and major form; the processing of p100 being relatively poor. Isoform p49 is a subunit of the NF-kappa-B protein complex, which stimulates the HIV enhancer in synergy with p65. This antibody can bind p100 isoform of NFKB2 specifically, but not p52 isoform.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

For technical support and original validation data for this product please contact:

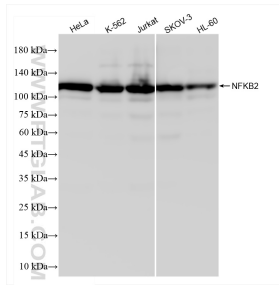
T: 4006900926

E: Proteintech-CN@ptglab.com

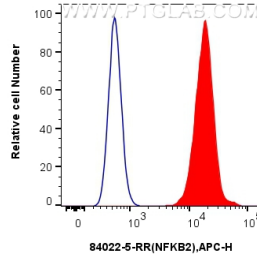
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

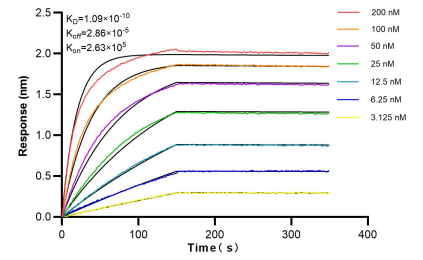
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84022-5-RR (NFKB2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



$1 \times 10^6$  A431 cells were intracellularly stained with 0.25  $\mu$ g NFKB2,p100 Recombinant antibody (84022-5-RR, Clone:241126C9) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25  $\mu$ g Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Bioluminescence resonance energy transfer (BRET) kinetic assays of 84022-5-RR against Human NFKB2,p100 were performed. The affinity constant is 0.109 nM.