

**APB825Mu01 100µg**  
**Active Nuclear Factor Kappa B2 (NFκB2)**  
**Organism Species: *Mus musculus* (Mouse)**  
***Instruction manual***

FOR RESEARCH USE ONLY  
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

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13th Edition (Revised in Aug, 2023)

## **[ PROPERTIES ]**

**Source:** Prokaryotic expression.

**Host:** *E. coli*

**Residues:** Ala35~Gly224

**Tags:** N-terminal His-tag

**Purity:** >90%

**Endotoxin Level:** <1.0EU per 1µg (determined by the LAL method).

**Buffer Formulation:** PBS, pH7.4, containing 0.01% SKL, 5%Trehalose .

**Original Concentration:** 200µg/mL

**Applications:** Cell culture; Activity Assays.

(May be suitable for use in other assays to be determined by the end user.)

**Predicted isoelectric point:** 10.0

**Predicted Molecular Mass:** 24.6kDa

**Accurate Molecular Mass:** 28kDa as determined by SDS-PAGE reducing conditions.

## **[ USAGE ]**

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## **[ STORAGE AND STABILITY ]**

**Storage:** Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

**Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

## [ **SEQUENCE** ]

ADGPYL VIVEQPKQRG  
FRFRYGCEGP SHGGLPGASS EKGRKTYPTV KICNYEGPAK IEVDLVTHSD  
PPRAHAHSLV GKQCSELGVC AVSVGPKDMT AQFNNLGVLH VTKKNMMEIM  
IQKLQRQLR SKPQGLTEAE RRELEQEAKE LKKVMDLSIV RLRFS AFLRA  
SDGSFSLPLK PVISQPIHDS KSPG

## [ **ACTIVITY** ]

Nuclear Factor kappa B2 (NFkB2), also known as p100, is a subunit of the NF-kappa B (NFkB) family of transcription factors. NFkB2 plays an important role in immune response and inflammation. It is involved in regulating the expression of a variety of genes, including those encoding cytokines, chemokines, adhesion molecules, and acute phase response proteins. RELB-NFkB2 heterodimer regulates the expression of genes associated with immune response and inflammation in cells. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant mouse NFkB2 and recombinant human RELB. Briefly, NFkB2 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100  $\mu$ l were then transferred to RELB-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-NFkB2 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50  $\mu$ l stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant mouse NFkB2 and recombinant human RELB was shown in Figure 1, the EC50 for this effect is 0.23 ug/mL.

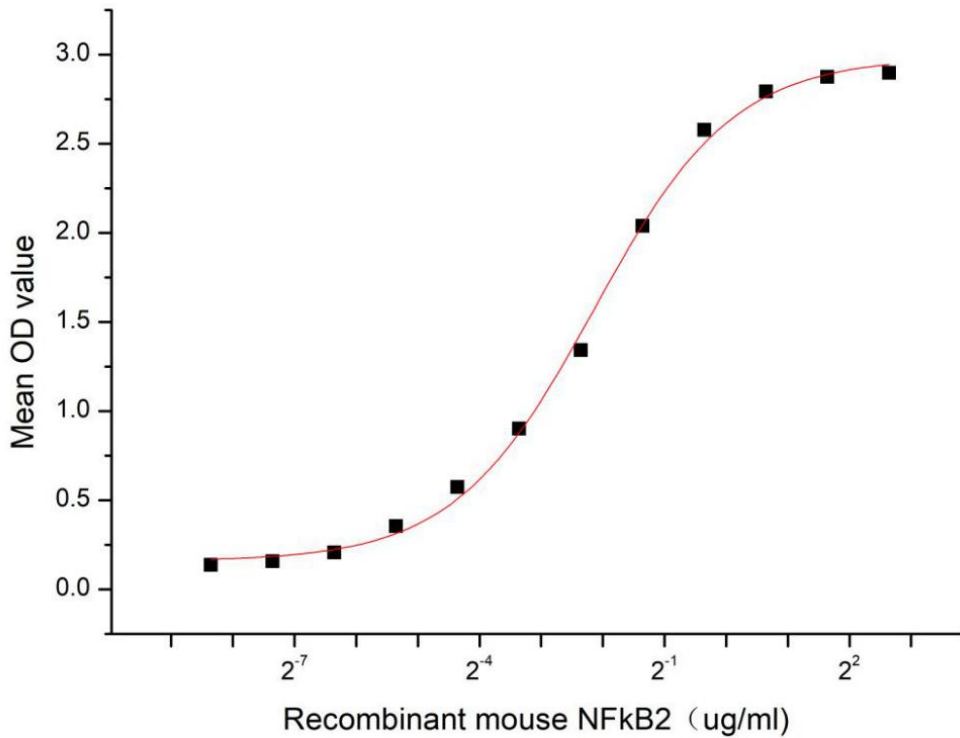


Figure 1. The binding activity of recombinant mouse NFkB2 and recombinant human RELB

[ IDENTIFICATION ]

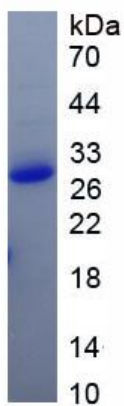


Figure 2. SDS-PAGE

Sample: Active recombinant NFkB2, Mouse

**[ IMPORTANT NOTE ]**

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.