



## Product Information Sheet

### Polyclonal Anti-NFκBP65 (Magnetic Bead Conjugate)

**Catalogue No.** PA1125-M

**Immunogen**

A synthetic peptide mapping at the N-terminal of human NFκBP65, identical to the related rat and mouse sequence.

**Lot No.** 08J01

**Ig type:** rabbit IgG1

**Purification**

Immunogen affinity purified

**Size:** 100µg/Vial

**Contents**

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN<sub>3</sub>.

**Specificity**

Human.

No cross reactivity with other proteins.

**Storage**

Store at 4°C for frequent use.

**Recommended application**

*Immunoprecipitation(IP)*

**Description:**

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation

### BACKGROUND

The p65 (RELA) heterodimer is the most abundant form of NFκB. This gene is located on 11q13, which consists of 10 exons and spans about 8.1 kb of DNA<sup>1</sup>. In rat sciatic nerves, the expression of the activated p65 subunit of NFκB was high in the nuclei of premyelinating Schwann cells and then progressively declined until it was nearly absent in adults<sup>2</sup>. The transcriptional activity of NF-kappa-B is stimulated upon phosphorylation of its p65 subunit on serine-276 by protein kinase A (PKA). The transcriptional coactivator CBP /p300 associates with NF-kappa-B p65 through 2 sites, an N-terminal domain that interacts with the C-terminal region of unphosphorylated p65, and a second domain that only interacts with p65 phosphorylated on serine-276<sup>3</sup>.

### REFERENCE

1. Deloukas, P.; van Loon, A. P. G. M. : Genomic organization of the gene encoding the p65 subunit of NF-kappa-B: multiple variants of the p65 protein may be generated by alternative splicing. *Hum. Molec. Genet.* 2: 1895-1900, 1993.
2. Nickols, J. C.; Valentine, W.; Kanwal, S.; Carter, B. D. : Activation of the transcription factor NF-kappa-B in Schwann cells is required for peripheral myelin formation. *Nature Neurosci.* 6: 161-167, 2003.
3. Zhong, H.; Voll, R. E.; Ghosh, S. : Phosphorylation of NF-kappa B by PKA stimulates transcriptional activity by promoting a novel bivalent interaction with the coactivator CBP/p300. *Molec. Cell* 1: 661-671, 1998.

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