

NF- κ B p65 Monoclonal Antibody

Description

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| Product type | Antibody |
| Code | BT-MCA2942 |
| Host | Mouse |
| Isotype | Mouse IgG1 |
| Size | 100 μ L, 50 μ L |
| Immunogen | Purified recombinant fragment of human NF- κ B p65 expressed in E. Coli. |
| Mol wt | 65kDa |
| Species reactivity | Human, Mouse |
| Clonality | Monoclonal |
| Recommended application | WB |
| Concentration | N/A |
| Full name | N/A |
| Synonyms | NF κ B p65; p65; NF κ B3; RELA |

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

Transcription factors of the nuclear factor κ B (NF- κ B)/Rel family is a ubiquitously expressed transcription factor that regulates many cytokine and Ig genes. It is involved in immune, inflammatory, viral, and acute phase responses. There are five family members in mammals: RelA (p65), c-Rel, RelB, NF- κ B1 (p105/p50) and NF- κ B2 (p100/p52). The most studied NF- κ B complex consists of the p50 and p65 subunits, both containing a 300 amino acid region with homology to the Rel proto-oncogene product. The p50 subunit binds DNA, whereas the p65 subunit is responsible for the interaction of NF- κ B with its inhibitor, I κ B. In most cell types, the p50/p65 heterodimer is located within the cytoplasm complexed to I κ B. This complex prevents nuclear translocation and activity of NF- κ B. In response to stimuli such as cytokines, LPS, and viral infections, I κ B is phosphorylated at critical residues. This phosphorylation induces dissociation of the I κ B/NF- κ B complex, allowing the free heterodimeric NF- κ B to form a heterotetramer that translocates to the nucleus. In the nucleus, it binds to the κ B site within promoters and enhancers and functions as a transcriptional activator.

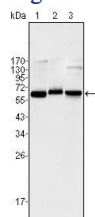
Recommended Dilution

WB: 1:500 - 1:2000

ELISA: 1:10000

Not yet tested in other applications.

Images



Western blot analysis using NF- κ B p65 mouse mAb against Jurkat (1), K562 (2) and NIH/3T3 (3) cell lysate.

Storage

Store at 4 $^{\circ}$ C short term. Aliquot and store at -20 $^{\circ}$ C long term.

