**German Research Products - GRP GmbH**
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# Product Datasheet

## NFKB p65(Ser536) Polyclonal Antibody
### GRP326

**Description**

NF-kappa-B is a pleiotropic transcription factor present in almost all cell types and is the endpoint of a series of signal transduction events that are initiated by a vast array of stimuli related to 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 and the heterodimeric p65-p50 complex appears to be most abundant one. The dimers bind at kappa-B sites in the DNA of their target genes and the individual dimers have distinct preferences for different kappa-B sites that they can bind with distinguishable affinity and specificity. Different dimer combinations act as transcriptional activators or repressors, respectively. NF-kappa-B is controlled by various mechanisms of post-translational modification and subcellular compartmentalization as well as by interactions with other cofactors or corepressors. NF-kappa-B complexes are held in the cytoplasm in an inactive state complexed with members of the NF-kappa-B inhibitor (I-kappa-B) family. In a conventional activation pathway, I-kappa-B is phosphorylated by I-kappa-B kinases (IKKs) in response to different activators, subsequently degraded thus liberating the active NF-kappa-B complex which translocates to the nucleus. NF-kappa-B heterodimeric p65-p50 and p65-c-Rel complexes are transcriptional activators. The NF-kappa-B p65-p65 complex appears to be involved in invasin-mediated activation of IL-8 expression. The inhibitory effect of I-kappa-B upon NF-kappa-B the cytoplasm is exerted primarily through the interaction with p65. p65 shows a weak DNA-binding site which could contribute directly to DNA binding in the NF-kappa-B complex. Associates with chromatin at the NF-kappa-B promoter region via association with DDX1. Essential for cytokine gene expression in T-cells (PubMed:15790681).

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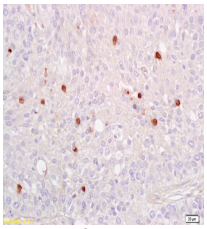
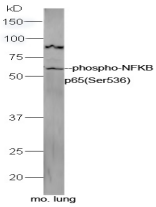
|---|---|
| **Species/Host** | Rabbit |
| **Reactivity** | Human, Mouse, Rat |
| **Conjugation** | Unconjugated |
| **Tested Applications** | FC, IHC-P, WB |
| **Immunogen** | KLH conjugated synthetic phosphopeptide derived from human NFKBp65 around the phosphorylation site of(Ser536) (public_immunogen_range: 515-551/551) |
| **Form/Appearance** | Aqueous buffered solution containing 1% BSA, 50% glycerol and 0.09% sodium azide. |
| **Concentration** | 1ug/ul |
| **Storage** | Store at -20°C for 12 months. |
| **Note** | For research use only. |
| **Isotype** | IgG |
| **Clonality** | Polyclonal |
| **Purity** | Purified by Protein A. |
| **Uniprot ID** | **Q04206** |
| **Entrez** | **5970** |
| **Dilution Range** | WB: 1:300-1000, FC: 1:20-100, IHC-P: 1:200-400 |


WB of GRP326



IHC-P of GRP326