Recombinant human Transcription factor p65 protein Catalog Number: CSB-RP039844h



| Product Name: | Recombinant human Transcription factor p65 protein |
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| Alternative names: | Nuclear factor NF-kappa-B p65 subunit |
| Catalog Number | CSB-RP039844h |
| Relevance : | 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 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. |
| Mol. Weight: | 28kd |
| Product Info : | His-tagged |
| Source: | E.coli derived |
| Image: | 116 kD 66.2kD 45 kD 35 kD 25 kD 18 kD 14.4kD |
| Purity: | >90%(SDS-PAGE) |
| Storage Buffer: | 20mM Tris-HCl, 0.5M NaCl, pH 8.0,50% glycerol |
| Storage : | Store at -20°C, for extended storage, conserve at -20°C or -80°C. |
| Notes : | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| AA sequence: | MDELFPLIFPAEPAQASGPYVEIIEQPKQRGMRFRYKCEGRSAGSIPGERSTDTTKTHPTIKINGYTGPGTVRI SLVTKDPPHRPHPHELVGKDCRDGFYEAELCPDRCIHSFQNLGIQCVKKRDLEQAISQRIQTNNNPFQVPIEE QRGDYDLNAVRLCFQVTVRDPSGRPLRLPPVLSHPIFDNRAPNTAELKICRVNRNSGSCLGGD |
| References: | "Isolation of a rel-related human cDNA that potentially encodes the 65-kD subunit of NF-kappa B." Ruben S.M., Dillon P.J., Schreck R., Henkel T., Chen CH., Maher M., Baeuerle P.A., Rosen C.A. Science 251:1490-1493(1991) |