

## NF-κB p65 (3D2) Mouse mAb

db6456

Package : 50μL 100μL

**Product Name** : NF-κB p65 (3D2) Mouse mAb**Cat.No.:** db6456**Synonyms** : NFKB3; RELA; TF65; Transcription factor p65; p65; NFκB**Application** : WB, IHC-Fr, IHC-P, ICC/IF, IP**Reactivity** : Human, Mouse, Rat**Host species** : Mouse**Background**

NF-κappa-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-κappa-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-κappa-B is controlled by various mechanisms of post-translational modification and subcellular compartmentalization as well as by interactions with other cofactors or corepressors. NF-κappa-B complexes are held in the cytoplasm in an inactive state complexed with members of the NF-κappa-B inhibitor (Iκappa-B) family. In a conventional activation pathway, Iκappa-B is phosphorylated by Iκappa-B kinases (IKKs) in response to different activators, subsequently degraded thus liberating the active NF-κappa-B complex which translocates to the nucleus. NF-κappa-B heterodimeric p65-p50 and p65-c-Rel complexes are transcriptional activators. The NF-κappa-B p65-p65 complex appears to be involved in invasion-mediated activation of IL-8 expression. The inhibitory effect of Iκappa-B upon NF-κappa-B in 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-κappa-B complex. Associates with chromatin at the NF-κappa-B promoter region via association with DDX1. Essential for cytokine gene expression in T-cells (PubMed/15790681).

**Immunogen**

Recombinant Protein of Transcription factor p65

**Gene ID**

5970

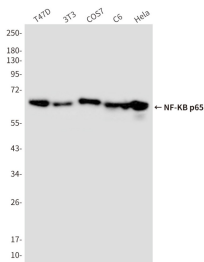
**Swiss Prot**

Q04206

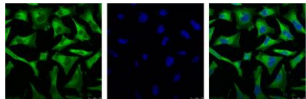
**Synonyms**

NFKB3; RELA; TF65; Transcription factor p65; p65; NFκB

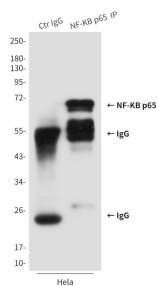
<b>Reactivity</b>	Human, Mouse, Rat
<b>Application</b>	WB, IHC-Fr, IHC-P, ICC/IF, IP
<b>Recommended dilution</b>	WB: 1:500-1000 IP: 1:20 ICC/IF: 1:50-1:200 IHC: 1:50-100
<b>Calculated MW</b>	60 kDa
<b>Observed MW</b>	65 kDa
<b>Host species</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clonality No.</b>	3D2-4E9-7A8
<b>Isotype</b>	IgG1
<b>Purity</b>	Affinity Purification
<b>Conjugation</b>	Un-conjugated
<b>Storage Stability</b>	Store at -20°C. Supplied in PBS, 50% Glycerol(pH 7.3), 0.02% sodium azide and 0.5% BSA . Stable for 12 months from date of receipt.



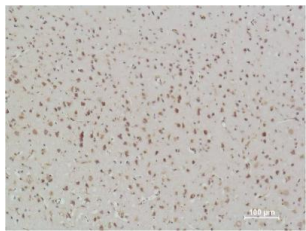
Western blot analysis of NF-KB p65 in T47D, 3T3, COS7, C6 and HeLa lysates using NF-KB p65 antibody.



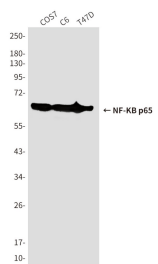
Immunofluorescence analysis of NF-KB p65 (3D2) in HeLa using NF-KB p65 (3D2) antibody, and DAPI (blue).



Immunoprecipitation analysis of NF-KB p65 (3D2) in HeLa lysates using NF-KB p65 (3D2) antibody.



Immunohistochemistry analysis of paraffin-embedded rat Brain Tissue using NF-KB p65 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Western blot analysis of NF-KB p65 (3D2) in COS7, C6, T47D lysates using NF-KB p65 (3D2) antibody.