NFkB-p65(Phospho-Ser536) Antibody

Catalog No: #11014

Package Size: #11014-1 50ul #11014-2 100ul



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Product Name	NFkB-p65(Phospho-Ser536) Antibody	
Host Species	Rabbit	
Clonality	Polyclonal	
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates.	
	Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho	
	specific antibodies were removed by chromatogramphy using non-phosphopeptide.	
Applications	WB IHC IF	
Species Reactivity	Human;Mouse;Rat	
Specificity	The antibody detects endogenous level of NF-kB p65 only when phosphorylated at serine 536.	
Immunogen Type	Peptide-KLH	
Immunogen Description	Peptide sequence around phosphorylation site of serine 536 (F-S-S(p)-I-A) derived from Human NFkB-p65.	
Conjugates	Unconjugated	
Target Name	NFkB-p65	
Modification	Phospho	
Other Names	NFKB3; RELA; TF65; Transcription factor p65; p65	
Accession No.	Swiss-Prot: Q04206NCBI Protein: NP_001138610.1	
Concentration	1.0mg/ml	
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02%	
	sodium azide and 50% glycerol.	
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.	

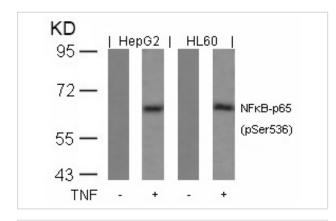
Application Details

Predicted MW: 65kd

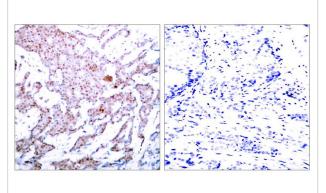
Western blotting: 1:500~1:1000
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

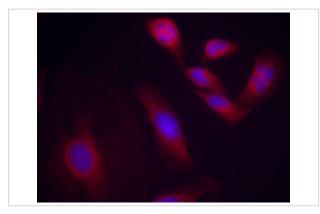
Images



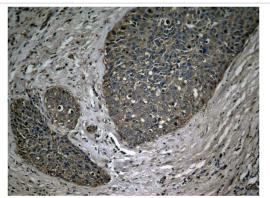
Western blot analysis of extracts from HepG2 and HL60 cells untreated or treated with TNF using NFkB-p65(Phospho-Ser536) Antibody #11014.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using NFkB-p65 (Phospho-Ser536) Antibody #11014 (left) or the same antibody preincubated with blocking peptide #51014 (right).



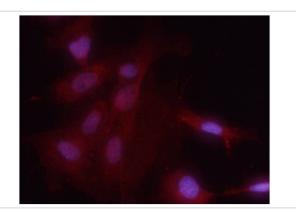
Immunofluorescence staining of methanol-fixed Hela cells using NFkB-p65(Phospho-Ser536) Antibody #11014.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using NFkB-p65 (Phospho-Ser536) Antibody #11014.



Immunohistochemical analysis of paraffin-embedded human Lung carcinoma tissue using NF κ B-p65 (Phospho-Ser536) Antibody #11014.



Immunofluorescence staining of methanol-fixed MEF cells using NFκB-p65 (Phospho-Ser536) Antibody #11014.

Background

NF-kappa-B is a pleiotropic transcription factor which is present in almost all cell types and is involved in many biological processed 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.

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