#### **Product Datasheet**

# NFkB-p65(Phospho-Thr505) Antibody

Catalog No: #11166

Package Size: #11166-1 50ul #11166-2 100ul



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Product Name	NFkB-p65(Phospho-Thr505) 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
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of NFkB-p65 only when phosphorylated at Threonine 505.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of threonine 505 (L-V-T(p)-G-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.

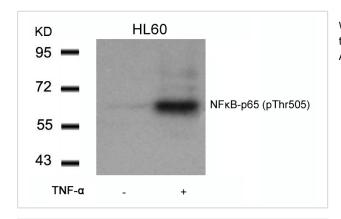
# **Application Details**

Predicted MW: 65kd

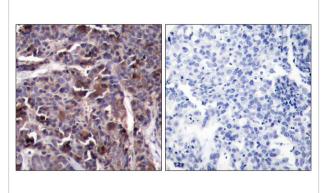
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

# **Images**



Western blot analysis of extracts from HL60 cells untreated or treated with TNF-a using NFkB-p65(Phospho-Thr505)
Antibody #11166.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using NFkB-p65(Phospho-Thr505) Antibody #11166(left) or the same antibody preincubated with blocking peptide(right).

### 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

Baeuerle P A, et al. (1994) Annu Rev Immunol. 12:141-179.

Baeuerle P A, et al. (1996) Cell 87:13-20.

Haskill S, et al. (1991) Cell 65:1281-1289.

#### **Published Papers**

el at., A multi-omics approach based on 1H-NMR metabonomics combined with target protein analysis to reveal the mechanism of RIAISs on cervical carcinomaln Aging (Albany NY)On2022 Sep 27byChai Yanlan , Aibibai Jielili et al..PMID:36170024, , (2023)

PMID:36170024

Yanlan Chai Yanlan; Aibibai Jielili; Juan Wang; Haiying Tang; Zi Liu; Ping Wang el at., A multi-omics approach based on B'HH-NMR metabonomics combined with target protein analysis to reveal the mechanism of RIAISs on cervical carcinoma patients, (2023)

PMID:36170024

Note: This product is for in vitro research use only and is not intended for use in humans or animals.					
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