

## Product datasheet for AP08012PU-N

## NF-kB p65 (RELA) pThr505 Rabbit Polyclonal Antibody

## **Product data:**

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	Immunohistochemistry (1/50-1/100).
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized phosphopeptide derived from human NFkB-p65 around the phosphorylation site of threonine 505 (L-V-TP-G-A).
Specificity:	This antibody NFkB-p65 (pThr505) Antibody detects endogenous levels of NFkB-p65 only when phosphorylated at Threonine 505.
Formulation:	PBS (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	RELA proto-oncogene, NF-kB subunit
Database Link:	<u>Entrez Gene 5970 Human</u> <u>Q04206</u>



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	NF-kB p65 (RELA) pThr505 Rabbit Polyclonal Antibody – AP08012PU-N
Background:	<ul> <li>NFkB (Nuclear Factor NF-kappa-B) is a pleiotropic transcription factor that plays a role in many biological processes, including inflammation, immunity, differentiation, cell growth, tumorigenesis, and apoptosis. It is found as a homo- or heterodimeric complex containing the Rel-like domain containing proteins NFkB p65 (RELA/p65), RELB, NFkB1/p105, NFkB1/p50, REL and NFkB2/p52. The heterodimeric NFkB p65/p50 complex is the most abundant one. The dimers bind to kappa-B sites at their target genes, with the affinity of the interaction dependent on the subunit composition of the dimer. Furthermore, different dimers act as transcriptional activators or repressors, with the NFkB p65/p50 and p65-c-Rel complexes acting as activators.</li> <li>NFkB activity is controlled by several different mechanisms, including post-translational modifications, subcellular localisation and interactions with other coactivators or corepressors. NFkB complexes are held in the cytoplasm in an inactive state by interaction with members of the NFkB inhibitor (IkB) family. Typically, phosphorylation of IkB by IkB kinases (IKKs) in response to different activators leads to degradation of the inhibitor, allowing NFkB to translocate into the nucleus. The inhibitory effect of IkBs is primarily exerted through their interaction with NfKB p65.</li> <li>NFkB p65 is ubiquitinated leading to its proteosomal degradation, which is required for termination of the NFkB response. Phosphorylation of NFkB p65 is also acetylated at K122, enhancing DNA binding and impairing the interaction with NFKBIA. The protein is deacetylated by HDAC3.</li> <li>Invasion of a host by a pathogen is frequently associated with the activation of NF-kB, which coordinates various aspects of immune function required for resistance to infection.</li> </ul>
Synonyms:	NF kappa B p65, NFkB p65, Transcription factor p65, Rel A, NFKB3

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**Product images:** 

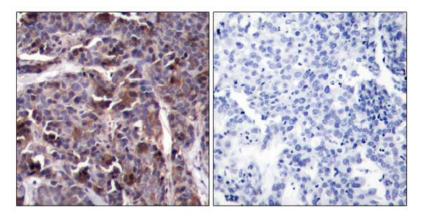


Figure 1. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using NFkB-p65 pThr505 Antibody (AP08012PU).

P-Peptide

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