

Product datasheet

Anti-NFkB p105 / p50 antibody ab7549

4 References

製品の概要

製品名	Anti-NFkB p105 / p50 antibody
製品の詳細	Rabbit polyclonal to NFkB p105 / p50
由来種	Rabbit
特異性	Recognition is at the N-terminus. This antibody will "supershift" NFkB complexes containing the human p50 subunit. Control peptide ab7550 will compete only with the specific reaction of antiserum with Human NFkB p50 (NFkB1).
アプリケーション	適用あり: IHC-P, ELISA, WB
種交差性	交差種: Human
免疫原	Synthetic peptide: AEDDPYLGRFEQMF conjugated to KLH, corresponding to N terminal amino acids 2-15 of Human NFkB p50.

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ポジティブ・コントロール

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Recombinant Human NFkB p105 / p50 protein >](#)

特記事項

NFkB is formed as a homo- or hetero-dimer. Subunits include p50 (NFkB1), p65 (RelA), c-Rel, RelB and p52 (NFkB2). The classic NFkB form exists as a p50-p65 heterodimer and predominates in many cell types. Many of the possible combinatorial forms of homo- and heterodimers have been identified and growing evidence indicates that different forms of NFkB have different functions in cells. Nuclear translocation of NFkB is confirmed by the use of electrophoretic mobility shift assays or by immunoblotting with nuclear extracts. The subunit composition of NFkB is confirmed by the use of antibodies that "supershift" the DNA/protein complex.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide
精製度	Whole antiserum

特記事項 (精製)

This product was prepared from monospecific antiserum by delipidation and defibrination.

ポリ/モノ

ポリクローナル

アイソタイプ

IgG

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab7549** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
IHC-P		Use at an assay dependent concentration. PubMed: 17220207
ELISA		Use at an assay dependent concentration.
WB		1/1000. Detects a band of approximately 50 kDa (predicted molecular weight: 50 kDa).
EMSA		Use at an assay dependent concentration. Use at a concentration of 0.5 - 1.0 µl per assay Control Peptide ab7550 1.0 ul per ul antiserum.

ターゲット情報

機能

NF-kappa-B is a pleiotropic transcription factor which is present in almost all cell types and is involved in 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 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 RelB-p50 complexes are transcriptional activators. The NF-kappa-B p50-p50 homodimer is a transcriptional repressor, but can act as a transcriptional activator when associated with BCL3. NFKB1 appears to have dual functions such as cytoplasmic retention of attached NF-kappa-B proteins by p105 and generation of p50 by a cotranslational processing. The proteasome-mediated process ensures the production of both p50 and p105 and preserves their independent function, although processing of NFKB1/p105 also appears to occur post-translationally. p50 binds to the kappa-B consensus sequence 5'-GGRNNYYCC-3', located in the enhancer region of genes involved in immune response and acute phase reactions. In a complex with MAP3K8, NFKB1/p105 represses MAP3K8-induced MAPK signaling; active MAP3K8 is released by proteasome-dependent degradation of NFKB1/p105.

配列類似性

Contains 7 ANK repeats.

	Contains 1 death domain. Contains 1 RHD (Rel-like) domain.
ドメイン	The C-terminus of p105 might be involved in cytoplasmic retention, inhibition of DNA-binding, and transcription activation. Glycine-rich region (GRR) appears to be a critical element in the generation of p50.
翻訳後修飾	While translation occurs, the particular unfolded structure after the GRR repeat promotes the generation of p50 making it an acceptable substrate for the proteasome. This process is known as cotranslational processing. The processed form is active and the unprocessed form acts as an inhibitor (I kappa B-like), being able to form cytosolic complexes with NF-kappa B, trapping it in the cytoplasm. Complete folding of the region downstream of the GRR repeat precludes processing. Phosphorylation at 'Ser-903' and 'Ser-907' primes p105 for proteolytic processing in response to TNF-alpha stimulation. Phosphorylation at 'Ser-927' and 'Ser-932' are required for BTRC/BTRCP-mediated proteolysis. Polyubiquitination seems to allow p105 processing. S-nitrosylation of Cys-61 affects DNA binding.
細胞内局在	Nucleus. Cytoplasm. Nuclear, but also found in the cytoplasm in an inactive form complexed to an inhibitor.

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