

Product datasheet

Anti-NF-kB p65 (phospho S529) antibody ab84333

画像数 1

製品の概要

製品名	Anti-NF-kB p65 (phospho S529) antibody
製品の詳細	Rabbit polyclonal to NF-kB p65 (phospho S529)
由来種	Rabbit
アプリケーション	適用あり: WB
種交差性	交差種: Human 交差が予測される動物種: Chimpanzee, Macaque monkey, Gorilla, Orangutan 
免疫原	Synthetic peptide corresponding to Human NF-kB p65 aa 500 to the C-terminus conjugated to Keyhole Limpet Haemocyanin (KLH). (Peptide available as ab101479 , ab101479)
ポジティブ・コントロール	This antibody gave a positive signal in the following whole cell lysates: HeLa; HeLa Nuclear; A431.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
精製度	70 - 90% by HPLC
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 **ab84333** 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
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 56 kDa (predicted molecular weight: 60 kDa).

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 p65-c-Rel complexes are transcriptional activators. The NF-kappa-B p65-p65 complex appears to be involved in invasion-mediated activation of IL-8 expression. The inhibitory effect of I-kappa-B upon NF-kappa-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-kappa-B complex. Associates with chromatin at the NF-kappa-B promoter region via association with DDX1.

配列類似性

Contains 1 RHD (Rel-like) domain.

ドメイン

the 9aaTAD motif is a transactivation domain present in a large number of yeast and animal transcription factors.

翻訳後修飾

Ubiquitinated, leading to its proteasomal degradation. Degradation is required for termination of NF-kappa-B response.

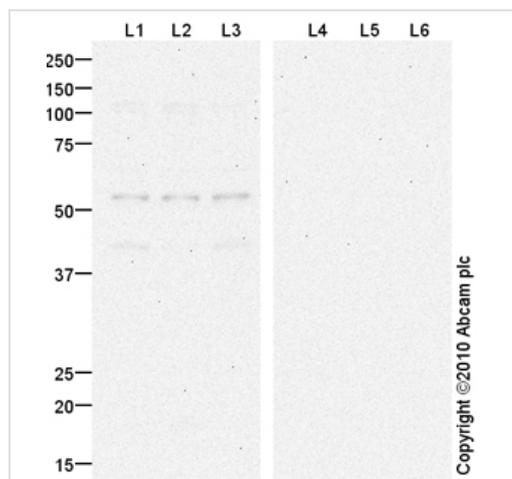
Monomethylated at Lys-310 by SETD6. Monomethylation at Lys-310 is recognized by the ANK repeats of EHMT1 and promotes the formation of repressed chromatin at target genes, leading to down-regulation of NF-kappa-B transcription factor activity. Phosphorylation at Ser-311 disrupts the interaction with EHMT1 without preventing monomethylation at Lys-310 and relieves the repression of target genes.

Phosphorylation at Ser-311 disrupts the interaction with EHMT1 and promotes transcription factor activity (By similarity). Phosphorylation on Ser-536 stimulates acetylation on Lys-310 and interaction with CBP; the phosphorylated and acetylated forms show enhanced transcriptional activity.

Reversibly acetylated; the acetylation seems to be mediated by CBP, the deacetylation by HDAC3. Acetylation at Lys-122 enhances DNA binding and impairs association with NFKBIA. Acetylation at Lys-310 is required for full transcriptional activity in the absence of effects on DNA binding and NFKBIA association. Acetylation can also lower DNA-binding and results in nuclear export. Interaction with BRMS1 promotes deacetylation of 'Lys-310'.

細胞内局在

Nucleus. Cytoplasm. Nuclear, but also found in the cytoplasm in an inactive form complexed to an inhibitor (I-kappa-B). Colocalized with RELA in the nucleus upon TNF-alpha induction.



Western blot - Anti-NF-kB p65 (phospho S529) antibody (ab84333)

All lanes : Anti-NF-kB p65 (phospho S529) antibody (ab84333) at 1 µg/ml

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate with NF-kB p65 peptide (ab116684)

Lane 2 : HeLa (Human epithelial carcinoma cell line) Nuclear Lysate with NF-kB p65 peptide (ab116684)

Lane 3 : A431 (Human epithelial carcinoma cell line) Whole Cell Lysate with NF-kB p65 peptide (ab116684)

Lane 4 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate with Human NF-kB p65 (phospho S529) peptide (ab101479)

Lane 5 : HeLa (Human epithelial carcinoma cell line) Nuclear Lysate with Human NF-kB p65 (phospho S529) peptide (ab101479)

Lane 6 : A431 (Human epithelial carcinoma cell line) Whole Cell Lysate with Human NF-kB p65 (phospho S529) peptide (ab101479)

Lysates/proteins at 10 µg per lane.

Blocking peptides at 1 µg/ml per lane.

Secondary

All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 60 kDa

Observed band size: 56 kDa

Exposure time: 20 minutes

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