



NFκB p65 (Phospho-Ser276) Antibody

#11011

Catalog Number: 11011-1, 11011-2

Amount: 50μg/50μl, 100μg/100μl

Swiss-Prot No. : Q04206

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at -20°C/1 year

Immunogen: The antiserum was produced against synthesized phosphopeptide derived from human NFκB p65 around the phosphorylation site of serine 276 (R-P-S_P-D-R).

Purification: 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

Specificity/Sensitivity:

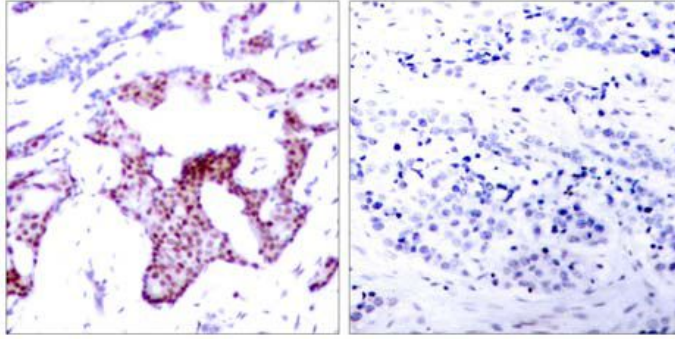
NF κ B-p65 (phospho-Ser276) antibody detects endogenous levels of NF κ B-p65 only when phosphorylated at serine 276.

Reactivity: Human, Mouse, Rat

Applications:

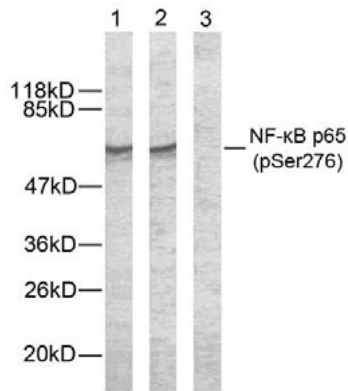
Predicted MW: 65kd

WB: 1:500~1:1000 IHC: 1:50~1:100 IF:1:100~1:200



P-Peptide - +

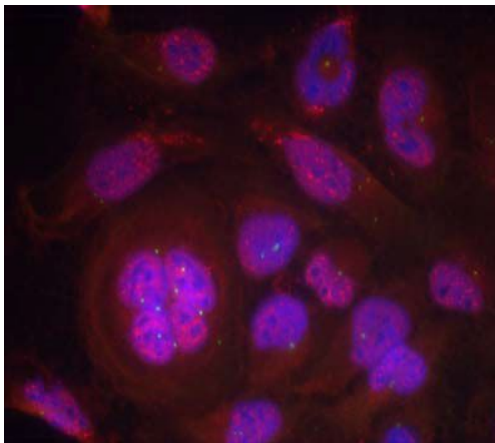
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using NF κ B p65 (Phospho-Ser276) antibody (#11011).



Peptide - + -

P-Peptide - - +

Western blot analysis of extract from HeLa cells using NF- κ B p65 (phospho-Ser276) antibody (#11011).



Immunofluorescence staining of methanol-fixed HeLa cells using NF- κ B p65(phospho-Ser276) antibody (#11011,Red)

Background :

NF-kappa-B is a pleiotropic transcription factor present in almost all cell types and is the endpoint of a series of signal transduction events that are initiated by a vast array of stimuli related to 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

References:

- 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.