

NF κ B-p65 (Acetyl-Lys314/315)

Catalog Number: 15004-1, 15004-2 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 peptide derived from Human NF x B-p65

around the acetylation site of Lysine314/315.

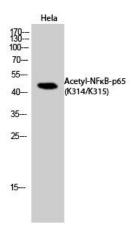
Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Specificity/Sensitivity:NFkB-p65 (Acetyl-Lys314/315) Antibody detects endogenous levels of NFkB-p65 protein only when acetylated at Lys314/315.

Reactivity: Human, Mouse, Rat

Applications:

Predicted MW: 60kd WB:1:500~1:2000 IHC:1:50-100



Western Blot analysis of Hela cells using

Acetyl-NFκB-p65 (K314/K315) Antibody.

Background:

Transcription factors of the nuclear factor $\ ^\kappa$ B (NF- $\ ^\kappa$ B)/Rel family is a ubiquitously expressed transcription factor that regulates many cytokine and Ig genes. It is involved in immune, inflammatory, viral, and acute phase responses. There are five family members in mammals: RelA (p65), c-Rel, RelB, NF- $\ ^\kappa$ B1 (p105/p50) and NF- $\ ^\kappa$ B2 (p100/p52). The most studied NF- $\ ^\kappa$ B complex consists of the p50 and p65 subunits, both containing a 300 amino acid region with homology to the Rel proto-oncogene product. The p50 subunit binds DNA, whereas the p65 subunit is responsible for the interaction of NF- $\ ^\kappa$ B with its inhibitor, I $\ ^\kappa$ B. In most cell types, the p50/p65 heterodimer is located within the cytoplasm complexed to I $\ ^\kappa$ B. This complex prevents nuclear translocation and activity of NF- $\ ^\kappa$ B. In response to stimuli such as cytokines, LPS, and viral infections, I $\ ^\kappa$ B is phosphorylated at critical residues. This phosphorylation induces dissociation of the I $\ ^\kappa$ B/NF- $\ ^\kappa$ B complex, allowing the free heterodimeric NF- $\ ^\kappa$ B to form a heterotetramer that translocates to the nucleus. In the nucleus, it binds to the $\ ^\kappa$ B site within promoters and enhancers and functions as a transcriptional activator.