

NF- κ B p65 Antibody Sampler Kit

Cat# AK0205

Upon receipt, store at -20°C. Avoid freeze/thaw cycles.

PRODUCT DESCRIPTION

Transcription factors of the nuclear factor κ B (NF- κ B)/Rel family play a pivotal role in inflammatory and immune responses. There are five family members in mammals: RelA, c-Rel, RelB, NF- κ B1 (p105/p50), and NF- κ B2 (p100/p52). Both p105 and p100 are proteolytically processed by the proteasome to produce p50 and p52, respectively. Rel proteins bind p50 and p52 to form dimeric complexes that bind DNA and regulate transcription. In unstimulated cells, NF- κ B is sequestered in the cytoplasm by I κ B inhibitory proteins. NF- κ B-activating agents can induce the phosphorylation of I κ B proteins, targeting them for rapid degradation through the ubiquitin-proteasome pathway and releasing NF- κ B to enter the nucleus where it regulates gene expression. NIK and IKK α (IKK1) regulate the phosphorylation and processing of NF- κ B2 (p100) to produce p52, which translocates to the nucleus. RelA/p65 is a subunit of the NF- κ B transcription complex, which plays a crucial role in inflammatory and immune responses. The complex is composed of various homodimeric and heterodimeric Rel family member combinations, the activity of which is modulated by post-translational modifications including phosphorylation and acetylation. p65 phosphorylation by PKA and/or MSK1 at Ser276 allows for increased interaction with the transcriptional coactivator p300/CBP to enhance transcriptional activity. NF- κ B dimer assembly with I κ B, as well as its DNA binding and transcriptional activities, are regulated by p300/CBP acetyltransferases that principally target Lys218, Lys221 and Lys310. This process is reciprocally regulated by histone deacetylases (HDACs); several HDAC inhibitors have been shown to activate NF- κ B. T-cell co-stimulation and Calyculin A have both been shown to increase Ser468 phosphorylation. IKK β (but not IKK α) and GSK-3 β both target this site, which appears to have a negative regulatory role not involving inhibition of nuclear translocation after TNF- α or IL-1 β stimulation. p65 phosphorylation at Ser536 regulates activation, nuclear localization

PRODUCT INCLUDES

Cat No.	Product name	Quantity	Applications	Reactivity	Host
A340404	NF κ B-p65 Polyclonal Antibody	20 μ L	WB, ELISA	Human, Mouse, Rat	Rabbit
A340260	Phospho-NF κ B-p65 (Ser276) Polyclonal Antibody	20 μ L	WB, IHC, IP, ELISA	Human, Mouse, Rat	Rabbit
A340261	Phospho-NF κ B-p65 (Ser468) Polyclonal Antibody	20 μ L	WB, IHC, IP, ELISA	Human, Mouse, Rat	Rabbit

A340262	Phospho-NFκB-p65 (Ser529) Polyclonal Antibody	20μL	WB, IHC, ELISA	Human, Mouse, Rat, Monkey	Rabbit
A340263	Phospho-NFκB-p65 (Ser536) Polyclonal Antibody	20μL	WB, IHC, IP, ELISA	Human, Mouse, Rat, Monkey	Rabbit
A340182	Acetyl-NFκB-p65 (Lys310) Polyclonal Antibody	20μL	WB, IHC, IF, ELISA	Human, Mouse	Rabbit
A340184	Acetyl-NFκB-p65 (Lys218) Polyclonal Antibody	20μL	WB, ELISA	Human, Mouse, Rat	Rabbit
A1013s	Goat Anti-Rabbit IgG (H+L) (peroxidase/HRP conjugated)	120μL	WB, ELISA	Rabbit	Goat

PRODUCT USE LIMITATION

These products are intended for research use only.