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Datasheet for ABIN2745768
NF-kB p65 Protein (His tag)

Overview

Quantity:	2 µg
Target:	NF-kB p65 (NFkBp65)
Origin:	Human
Source:	Insect cells (Sf21)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This NF-kB p65 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Cross-Reactivity:	Human
Characteristics:	Human NF-kappaB (p65) is fused to a His-tag.
Purity:	>95 % (SDS-PAGE)

Target Details

Target:	NF-kB p65 (NFkBp65)
Alternative Name:	NF-kB p65 (NFkBp65 Products)
Background:	NF-kappaB 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-kappaB is a homo- or heterodimeric complex formed

Target Details

by the Rel-like domain-containing proteins RELA/p65, RELB, NFKB1/p105, NFKB1/p50, REL and NFKB2/p52. The heterodimeric p65-p50 complex is the most abundant complex. The dimers bind at kappaB sites in the DNA of their target genes and the individual dimers have distinct preferences for different kappaB sites that they can bind with distinguishable affinity and specificity. Different dimer combinations act as transcriptional activators or repressors, respectively. NF-kappaB complexes are held in the cytoplasm in an inactive state complexed with members of the NF-kappaB inhibitor (I-kappaB) family. In a conventional activation pathway, I-kappaB is phosphorylated by I-kappaB kinases (IKKs) in response to different activators, subsequently degraded thus liberating the active NF-kappaB complex which translocates to the nucleus. NF-kappaB heterodimeric p65-p50 and p65-c-Rel complexes are transcriptional activators. The NF-kappaB p65-p65 complex appears to be involved in invasion-mediated activation of IL-8 expression. p65 shows a weak DNA-binding site which could contribute directly to DNA binding in the NF-kappaB complex.

UniProt: [Q04206](#)

Pathways: [NF-kappaB Signaling](#), [RTK Signaling](#), [TCR Signaling](#), [TLR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Activation of Innate immune Response](#), [Cellular Response to Molecule of Bacterial Origin](#), [Hepatitis C](#), [Toll-Like Receptors Cascades](#), [S100 Proteins](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Comment: ~1ng is required for high mobility shift assay. ~5ng are required for reconstituted transcription assays.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: In 50 mM TRIS-HCl, pH 7.5, containing 100 mM sodium chloride, 0.2 % NP-40, 50 mM imidazole and 10 % glycerol.

Storage: -20 °C, -80 °C

Storage Comment: Short Term Storage: -20°C

Handling

Long Term Storage: -80°C

Stable for at least 6 months after receipt when stored at -80°C.

Expiry Date: 6 months