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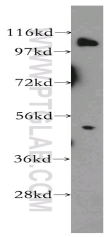
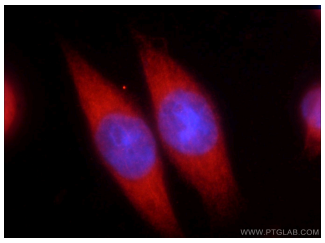
NF-κB Polyclonal Antibody

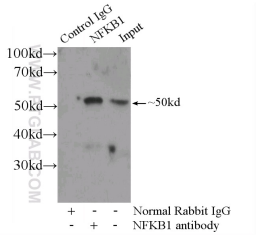
Catalog number: 14220-1-AP
Size: 28 µg/150 µl
Source: Rabbit
Isotype: IgG
Synonyms:
NFKB1; DKFZp686C01211, DNA binding factor KBF1, EBP 1, KBF1, NF kappa B, NFKB p105, NFKB p50, NFKB1, NFKB1,p105, NFKB1,p105,p50, NF-κB, p105, p50



Jurkat cells were subjected to SDS PAGE followed by western blot with 14220-1-AP(NFKB1 antibody) at dilution of 1:1000



Immunofluorescent analysis of HeLa cells using 14220-1-AP(NFKB1 Antibody) at dilution of 1:50 and Rhodamine-Goat anti-Rabbit IgG



IP Result of anti-NFKB1 (IP:14220-1-AP, 3ug; Detection:14220-1-AP 1:500) with Jurkat cells lysate 1800ug.

Background

NFkB is a pleiotropic transcription factor which is present in almost all cell types and is involved in many biological processed such as inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. NFkB is activated by various intra- and extracellular stimuli such as cytokines, oxidant free radicals, ultraviolet irradiation, and bacterial or viral products. NFkB is a family of transcription factors that consists of homo- and heterodimers of NFkB1/p50 and RelA/p65 subunits, and controls a variety of cellular events including development and immune responses. All members share a conserved amino terminus domain that includes dimerization, nuclear localization, and DNA binding regions, and a carboxy terminal transactivation domain. Serines 529 and 536 in the transactivation domain of RelA/p65 are phosphorylated in response to several stimuli including phorbol ester, IL1 alpha and TNF alpha as mediated by IkB kinase and p38 MAPK. Phosphorylation of serines 529 and 536 is critical for RelA/p65 transcriptional activity. Activated NFkB translocates into the nucleus and stimulates the expression of genes involved in a wide variety of biological functions. Inappropriate activation of NFkB has been associated with a number of inflammatory diseases while persistent inhibition of NFkB leads to inappropriate immune cell development or delayed cell growth. NFKB1 appears to have dual functions such as cytoplasmic retention of attached NF-kappa-B proteins by p105 and generation of p50 by a cotranslational processing. This antibody can bind both p105 and p50 isoforms of NFKB1.

Applications

Tested applications:	**ELISA, WB, IF, IP**
Cited applications:	**IF, IP, WB**
Species specificity:	**Human, Rat; other species not tested.**
Cited species:	**Human, rat**
Caculated NF-κB MW:	**105 kDa**
Observed NF-κB MW:	**50 kDa and 105 kDa**
Positive WB detected in	**Jurkat cells, HeLa cells, K-562 cells, Raji cells**
Positive IP detected in	**Jurkat cells**
Positive IF detected in	**HeLa cells**
Recommended dilution:	**WB: 1:500-1:5000**
	IP: 1:200-1:2000
	IF: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	**Ag5458**
GenBank accession number:	**BC051765**
Gene ID (NCBI):	**4790**
Full name:	**Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1**

Product information

Purification method:	**Antigen affinity purification**
Storage:	**PBS with 0.02% sodium azide and 50% glycerol pH**

storage.

7.3. Store at -20^{o}C.