Nfkappab (NFKB1) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NFkappaB- (NFKB1), Polyclonal Antibody
Full Product Name	NFkappaB-p105 (Ab-893) Conjugated Antibody
Product Gene Name	anti-NFKB1 antibody
Product Synonym Names	DNA-binding factor KBF1; EBP-1; NF-kappa-B1 p84/NF-kappa-B1 p98; NFKB1; NFkB-p50
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous level of total NFkappaB-p105 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	105,356 Da
Chromosome Location	Chromosome: 4; NC_000004.11 (103422486..103538459). Location: 4q24
OMIM	164011
3D Structure	ModBase 3D Structure for P19838
Immunogen	Peptide sequence around aa.891~895 (A-S-S-P-V) derived from Human NFkappa-B-p105.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-NFKB1 antibody	Most Applications
Application Notes for anti-NFKB1 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-NFKB1 antibody	NF-kappa-B 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. 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. 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.
Other Notes	Small volumes of anti-NFKB1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for NFKB1 purchase	MBS9438676 is an antibody targeting NFKB1. Also known as NFkappaB-p105 (Ab-893) Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NFKB1. It may not necessarily be applicable to this product.

NCBI GI #	259155302
NCBI GeneID	4790
NCBI Accession #	NP_001158884.1
UniProt Primary Accession #	P19838
UniProt Secondary Accession #	Q68D84; Q86V43; Q8N4X7; Q9NZC0; A8K5Y5; B3KVE8
UniProt Related Accession #	P19838
GenBank Nucleotide #	NM_001165412.1
NCBI Official Full Name	nuclear factor NF-kappa-B p105 subunit isoform 2
NCBI Official Synonym Full Names	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1
NCBI Official Symbol	NFKB1
NCBI Official Synonym Symbols	p50; KBF1; p105; EBP-1; NF-kB1; NFKB-p50; NFkappaB; NF-kappaB; NFKB-p105; NF-kappa-B
UniProt Protein Name	Nuclear factor NF-kappa-B p105 subunit
UniProt Synonym Protein Names	DNA-binding factor KBF1; EBP-1; Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1
Protein Family	Nuclear factor
UniProt Gene Name	NFKB1
UniProt Entry Name	NFKB1_HUMAN
NCBI Protein Information	nuclear factor NF-kappa-B p105 subunit; NF-kappabeta; DNA binding factor KBF1; DNA-binding factor KBF1; nuclear factor NF-kappa-B p50 subunit; nuclear factor kappa-B DNA binding subunit
NCBI Summary for NFKB1	This gene encodes a 105 kD protein which can undergo cotranslational processing by the 26S proteasome to produce a 50 kD protein. The 105 kD protein is a Rel protein-specific transcription inhibitor and the 50 kD protein is a DNA binding subunit of the NF-kappa-B (NFKB) protein complex. NFKB is a transcription regulator that is activated by various intra- and extra-cellular stimuli such as cytokines, oxidant-free radicals, ultraviolet irradiation, and bacterial or viral products. 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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]

UniProt Comments for NFKB1	NFkB-p105: a transcription factor of the nuclear factor-kappaB (NFkB) group. Undergoes cotranslational processing by the 26S proteasome to produce a 50 kD protein. The 105 kD protein is a Rel protein-specific transcription inhibitor and the 50 kD protein is a DNA binding subunit of NFkB. NFkB is a transcription regulator that is activated by various intra- and extra-cellular stimuli such as cytokines, oxidant-free radicals, ultraviolet irradiation, and bacterial or viral products. 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. There are five NFkB proteins in mammals (RelA/NFkB-p65, RelB, c-Rel, NF-_B1/NFkB-p105, and NF-_B2/NFkB-p100). They form a variety of homodimers and heterodimers, each of which activates its own characteristic set of genes. Two alternatively spliced isoforms have been described. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 4q24 Cellular Component: nucleoplasm; mitochondrion; cytoplasm; nucleus; cytosol Molecular Function: protein binding; protein homodimerization activity; protein heterodimerization activity; heat shock protein binding; double-stranded DNA binding; chromatin binding; transcription factor activity; transcription factor binding Biological Process: transcription from RNA polymerase II promoter; I-kappaB kinase/NF-kappaB cascade; nerve growth factor receptor signaling pathway; apoptosis; negative regulation of cholesterol transport; positive regulation of transcription, DNA-dependent; negative regulation of cellular protein metabolic process; toll-like receptor 3 signaling pathway; negative regulation of transcription from RNA polymerase II promoter; T cell receptor signaling pathway; activation of NF-kappaB transcription factor; toll-like receptor 10 signaling pathway; toll-like receptor 5 signaling pathway; positive regulation of interferon type I production; inflammatory response; toll-like receptor 4 signaling pathway; membrane protein intracellular domain proteolysis; MyD88-independent toll-like receptor signaling pathway; negative regulation of interleukin-12 biosynthetic process; toll-like receptor 2 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; response to copper ion; negative regulation of inflammatory response; toll-like receptor signaling pathway; innate immune response; positive regulation of transcription from RNA polymerase II promoter; toll-like receptor 9 signaling pathway; response to oxidative stress; negative regulation of apoptosis
Research Articles on NFKB1	**1.** Functionally compromised RNF11 influences NF-kappaB-associated neuronal functions, including inflammation responses.
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