NFKB Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NFKB, Polyclonal Antibody
Full Product Name	NFKB p100/p52 Rabbit pAb
Product Gene Name	anti-NFKB antibody
Product Synonym Names	CVID10; DNA binding factor KBF2; H2TF1; Lyt10; NFKB2; Nuclear factor NF kappa B p100 subunit; Nuclear factor NF kappa B p52 subunit; Oncogene Lyt 10; p105; p49/p100
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Purity/Purification	Affinity Chromatography
Preparation and Storage	Store at 4 degree C short term. Store at -20 degree C long term. Avoid freeze/thaw cycle.
Molecular Weight	120; 52kDa
OMIM	164012
3D Structure	ModBase 3D Structure for Q00653
Immunogen	A synthesized peptide derived from human NFkB p100/p52
Cellular Localization	Cytoplasm, Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NFKB antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunofluorescence (IF), Immunoprecipitation (IP)
Application Notes for anti-NFKB antibody	WB: 1:1000-1:5000 ICC/IF: 1:50-1:200 IP: 1:50
Related Product Information for anti-NFKB antibody	Transcription factors of the nuclear factor kappa B (NF-kappaB)/Rel family play a pivotal role in inflammatory and immune responses. NF-kappaB-activating agents can induce the phosphorylation of IkappaB proteins, targeting them for rapid degradation through the ubiquitin-proteasome pathway and releasing NF-kappaB to enter the nucleus where it regulates gene expression.
Other Notes	Small volumes of anti-NFKB 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 NFKB purchase	MBS8543582 is an antibody targeting NFKB. Also known as NFKB p100/p52 Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	117320531

NCBI GeneID	4791
NCBI Accession #	NP_001070962.1
UniProt Primary Accession #	Q00653
UniProt Related Accession #	Q00653
GenBank Nucleotide #	NP_001070962.1
NCBI Official Full Name	nuclear factor NF-kappa-B p100 subunit isoform a
NCBI Official Synonym Full Names	nuclear factor kappa B subunit 2
NCBI Official Symbol	NFKB2
NCBI Official Synonym Symbols	p52; p100; H2TF1; LYT10; CVID10; LYT-10; NF-kB2; p49/p100
UniProt Protein Name	Nuclear factor NF-kappa-B p100 subunit
UniProt Synonym Protein Names	DNA-binding factor KBF2; H2TF1; Lymphocyte translocation chromosome 10 protein; Nuclear factor of kappa light polypeptide gene enhancer in B-cells 2; Oncogene Lyt-10
Protein Family	NF-kappa-B-repressing factor
UniProt Gene Name	NFKB2
UniProt Synonym Gene Names	LYT10; Lyt10
UniProt Entry Name	NFKB2_HUMAN
NCBI Protein Information	nuclear factor NF-kappa-B p100 subunit
NCBI Summary for NFKB	This gene encodes a subunit of the transcription factor complex nuclear factor-kappa-B (NFkB). The NFkB complex is expressed in numerous cell types and functions as a central activator of genes involved in inflammation and immune function. The protein encoded by this gene can function as both a transcriptional activator or repressor depending on its dimerization partner. The p100 full-length protein is co-translationally processed into a p52 active form. Chromosomal rearrangements and translocations of this locus have been observed in B cell lymphomas, some of which may result in the formation of fusion proteins. There is a pseudogene for this gene on chromosome 18. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]

UniProt Comments for NFKB	NFkB-p100: a transcription factor of the nuclear factor-kappaB (NFkB) group. Precursor of the p52 subunit of the nuclear factor NF-kappa-B, which binds to the kappa-B consensus sequence 5'-GGRNNYYCC-3', located in the enhancer region of genes involved in immune response and acute phase reactions. The precursor protein itself does not bind to DNA. LT-beta receptor agonists and LPS induce NF-kappaB/p100 processing to p52 at the level of the ribosome. 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 spliced isoforms have been identified. Isoform p49 is a subunit of the NF-kappa-B protein complex, which stimulates the HIV enhancer in synergy with p65. Protein type: Transcription factor; Oncoprotein; DNA-binding Chromosomal Location of Human Ortholog: 10q24 Cellular Component: Bcl3/NF-kappaB2 complex; nucleoplasm; cytoplasm; cytosol; nucleus Molecular Function: protein binding; transcription coactivator activity; chromatin binding; transcription factor activity Biological Process: spleen development; I-kappaB kinase/NF-kappaB cascade; extracellular matrix organization and biogenesis; transcription, DNA-dependent; MyD88-independent toll-like receptor signaling pathway; follicular dendritic cell differentiation; rhythmic process; negative regulation of transcription from RNA polymerase II promoter; toll-like receptor 3 signaling pathway; toll-like receptor 10 signaling pathway; activation of NF-kappaB transcription factor; toll-like receptor 2 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; toll-like receptor 5 signaling pathway; regulation of transcription, DNA-dependent; response to cytokine stimulus; toll-like receptor signaling pathway; germinal center formation; positive regulation of interferon type I production; innate immune response; positive regulation of transcription from RNA polymerase II promoter; toll-like receptor 9 signaling pathway; inflammatory response; toll-like receptor 4 signaling pathway Disease: Immunodeficiency, Common Variable, 10
Research Articles on NFKB	**1.** With a heterozygous NFKB2 mutation.
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