NFKB2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NFKB2, Polyclonal Antibody
Full Product Name	NFKB2 Antibody, HRP conjugated
Product Gene Name	anti-NFKB2 antibody
Product Synonym Names	Nuclear factor NF-kappa-B p100 subunit; 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; Lyt10; Nuclear factor NF-kappa-B p52 subunit; NFKB2; LYT10
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: NFKB2 (MBS7104533) HRP Conjugated Antibody: NFKB2 (MBS7104534)
Molecular Weight	96,678 Da
OMIM	X61498 mRNA
3D Structure	ModBase 3D Structure for Q00653
Immunogen	Recombinant Human Nuclear factor NF-kappa-B p100 subunit protein (263-439AA)
Conjugation	HRP
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Product Categories/Family for anti-NFKB2 antibody	Epigenetics and Nuclear Signaling; Cancer; Cell biology; Signal transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NFKB2 antibody	ELISA (EIA)

Related Product Information for anti-NFKB2 antibody	NF-kappa-B 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-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. NF-kappa-B is controlled by various mechanisms of post-translational modification and subcellular compartmentalization as well as by interactions with other cofactors or corepressors. NF-kappa-B complexes are held in the cytoplasm in an inactive state complexed with members of the NF-kappa-B inhibitor (I-kappa-B) family. In a conventional activation pathway, I-kappa-B is phosphorylated by I-kappa-B kinases (IKKs) in response to different activators, subsequently degraded thus liberating the active NF-kappa-B complex which translocates to the nucleus. In a non-canonical activation pathway, the MAP3K14-activated CHUK/IKKA homodimer phosphorylates NFKB2/p100 associated with RelB, inducing its proteolytic processing to NFKB2/p52 and the formation of NF-kappa-B RelB-p52 complexes. The NF-kappa-B heterodimeric RelB-p52 complex is a transcriptional activator. The NF-kappa-B p52-p52 homodimer is a transcriptional repressor. NFKB2 appears to have dual functions such as cytoplasmic retention of attached NF-kappa-B proteins by p100 and generation of p52 by a cotranslational processing. The proteasome-mediated process ensures the production of both p52 and p100 and preserves their independent function. p52 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. p52 and p100 are respectively the minor and major form; the processing of p100 being relatively poor. Isoform p49 is a subunit of the NF-kappa-B protein complex, which stimulates the HIV enhancer in synergy with p65. In concert with RELB, regulates the circadian clock by repressing the transcriptional activator activity of the CLOCK-ARNTL/BMAL1 heterodimer.
Other Notes	Small volumes of anti-NFKB2 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 NFKB2 purchase	MBS7104534 is an antibody targeting NFKB2. Also known as NFKB2 Antibody, HRP conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NFKB2. 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 Secondary Accession #	Q04860; Q9BU75; Q9H471; Q9H472; A8K9D9; D3DR83
UniProt Related Accession #	Q00653
GenBank Nucleotide #	NM_001077494.3
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; Lyt10
Protein Family	Nuclear factor
UniProt Gene Name	NFKB2
UniProt Synonym Gene Names	LYT10; Lyt10

NCBI Protein Information	nuclear factor NF-kappa-B p100 subunit
NCBI Summary for NFKB2	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]
Research Articles on NFKB2	**1.** This study demonstrated that NF-kappaB mRNA levels were significantly decreased in the new cases of untreated MS patients in comparison to healthy controls.
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