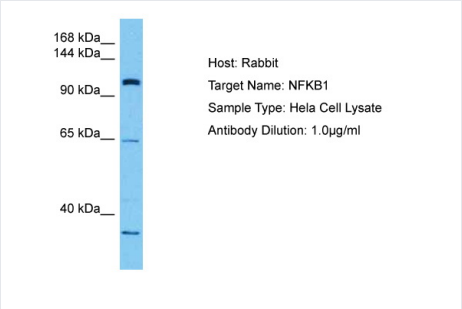
NFKB1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NFKB1, Polyclonal Antibody
Full Product Name	NFKB1 Antibody - middle region
Product Gene Name	anti-NFKB1 antibody
Product Synonym Gene Name	p50; KBF1; p105; EBP-1; CVID12; NF-kB1; NFKB-p50; NFkappaB; NF-kappaB; NFKB-p105; NF-kappa-B
Immunogen Sequence	Synthetic peptide located within the following region: LAYLQAEGGG DRQLGDREKE LIRQAALQQT KEMDLSVVRL MFTAFLPDST
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	NFKB1 peptide (MBS3248510) is used for blocking the activity of NFKB1 antibody (MBS3224174)
Molecular Weight	106 kDa
OMIM	164011
3D Structure	ModBase 3D Structure for P19838
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human NFKB1
Product Categories/Family for anti-NFKB1 antibody	Polyclonal; Transcription Regulation; Developmental Biology; Immunology; Tissue Specific & Cell Marker
Applications Tested/Suitable for anti-NFKB1 antibody	Western Blot (WB)
Related Product Information for anti-NFKB1 antibody	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. Alternative splicing results in multiple transcript variants encoding different isoforms, at least one of which is proteolytically processed.
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	MBS3224174 is an antibody targeting NFKB1. Also known as NFKB1 Antibody - middle region. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-NFKB1 antibody
Host: RabbitTarget Name: NFKB1Sample Tissue: Human Hela Whole Cell lysatesAntibody Dilution: 1ug/ml

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 Related Accession #	P19838
GenBank Nucleotide #	NM_001165412.1
NCBI Official Full Name	nuclear factor NF-kappa-B p105 subunit isoform 2 proprotein
NCBI Official Synonym Full Names	nuclear factor kappa B subunit 1
NCBI Official Symbol	NFKB1
NCBI Official Synonym Symbols	p50; KBF1; p105; EBP-1; CVID12; NF-kB1; NFKB-p50; NFkappaB; NF-kappaB; NFKB-p105; NF-kappa-B1
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

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.** High NFKB expression is associated with metastasis in breast cancer.
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