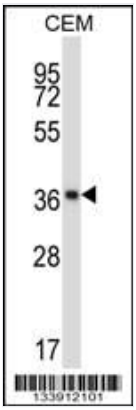
NFKBIB Antibody – Rabbit Polyclonal

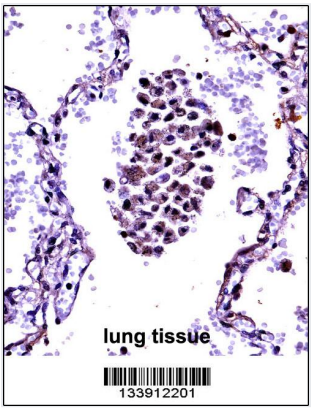
PRODUCT OVERVIEW

Product Name	NFKBIB, Polyclonal Antibody
Full Product Name	NFKBIB Antibody (C-term)
Product Gene Name	anti-NFKBIB antibody
Product Synonym Names	NF-kappa-B inhibitor beta; NF-kappa-BIB; I-kappa-B-beta; IkB-B; IkB-beta; IkappaBbeta; Thyroid receptor-interacting protein 9; TR-interacting protein 9; TRIP-9; NFKBIB; IKBB; TRIP9
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.31 (lot specific)
Specificity	This NFKBIB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 326-355 amino acids from the C-terminal region of human NFKBIB.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	NFKBIB peptide (MBS9220189) is used for blocking the activity of NFKBIB antibody (MBS9208638)
Molecular Weight	37771
Immunogen Sequence Positions	326-355
OMIM	604495
3D Structure	ModBase 3D Structure for Q15653
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-NFKBIB antibody	Cardiovascular; Cell Biology; Immunology; Signal Transduction
Applications Tested/Suitable for anti-NFKBIB antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-NFKBIB antibody	WB~~1:1000

Related Product Information for anti-NFKBIB antibody	NFKB1 (MIM 164011) or NFKB2 (MIM 164012) is bound to REL (MIM 164910), RELA (MIM 164014), or RELB (MIM 604758) to form the NFKB complex. The NFKB complex is inhibited by I-kappa-B proteins (NFKBIA, MIM 164008, or NFKBIB), which inactivate NF-kappa-B by trapping it in the cytoplasm. Phosphorylation of serine residues on the I-kappa-B proteins by kinases (IKBKA, MIM 600664 or IKBKB, MIM 603258) marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NF-kappa-B complex. Activated NFKB complex translocates into the nucleus and binds DNA at kappa-B-binding motifs such as 5-prime GGGRNNYYCC 3-prime or 5-prime HGGARNYYCC 3-prime (where H is A, C, or T; R is an A or G purine; and Y is a C or T pyrimidine).
Product References and Citations for anti-NFKBIB antibody	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Potter, C., et al. Ann. Rheum. Dis. 69(7):1315-1320(2010) Segat, L., et al. Vaccine 28(10):2201-2206(2010) McGeachie, M., et al. Circulation 120(24):2448-2454(2009) Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Other Notes	Small volumes of anti-NFKBIB 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 NFKBIB purchase	MBS9208638 is an antibody targeting NFKBIB. Also known as NFKBIB Antibody (C-term). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-NFKBIB antibody
NFKBIB Antibody (C-term) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the NFKBIB antibody detected the NFKBIB protein (arrow).



Immunohistochemistry (IHC) of anti-NFKBIB antibody
NFKBIB Antibody (C-term) (MBS9208638)immunohistochemistry analysis in formalin fixed and paraffin embedded human lung tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of NFKBIB Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

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

NCBI GI #	340805857
NCBI GeneID	4793
NCBI Accession #	NP_001230045.1
NCBI Related Accession #	NP_002494.2
UniProt Primary Accession #	Q15653
UniProt Secondary Accession #	Q96BJ7; A8K3F4
UniProt Related Accession #	Q15653
GenBank Nucleotide #	NM_001243116.1

NCBI Official Full Name	NF-kappa-B inhibitor beta isoform 2
NCBI Official Synonym Full Names	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, beta
NCBI Official Symbol	NFKBIB
NCBI Official Synonym Symbols	IKBB; TRIP9
UniProt Protein Name	NF-kappa-B inhibitor beta
UniProt Synonym Protein Names	I-kappa-B-beta; IkB-B; IkB-beta; IkappaBbeta; Thyroid receptor-interacting protein 9; TR-interacting protein 9; TRIP-9
Protein Family	NF-kappa-B inhibitor
UniProt Gene Name	NFKBIB
UniProt Synonym Gene Names	IKBB; TRIP9; NF-kappa-BIB; IkB-B; IkB-beta; IkappaBbeta; TR-interacting protein 9; TRIP-9
UniProt Entry Name	IKBB_HUMAN
NCBI Protein Information	NF-kappa-B inhibitor beta
NCBI Summary for NFKBIB	The protein encoded by this gene belongs to the NF-kappa-B inhibitor family, which inhibit NF-kappa-B by complexing with, and trapping it in the cytoplasm. Phosphorylation of serine residues on these proteins by kinases marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NF-kappa-B, which translocates to the nucleus to function as a transcription factor. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Jul 2011]
UniProt Comments for NFKBIB	IkB-beta: a protein of the NF-kappa-B inhibitor family. Inhibits NF-kappa-B by complexing with and trapping it in the cytoplasm. However, the unphosphorylated form resynthesized after cell stimulation is able to bind NF-kappa-B allowing its transport to the nucleus and protecting it to further IKBA- dependent inactivation. Association with inhibitor kappa B- interacting Ras-like proteins 1 and 2 may also explain the slower degradation. Interacts with ligand-binding domain of thyroid hormone receptor-beta, inhibitor kappa B-interacting Ras-like protein 1, inhibitor kappa B-interacting protein Ras2, p65 (RELA) and c-Rel. Expressed in all tissues examined. Protein type: Inhibitor Chromosomal Location of Human Ortholog: 19q13.1 Cellular Component: nucleus; cytosol Molecular Function: signal transducer activity; protein binding; transcription coactivator activity Biological Process: transcription, DNA-dependent; MyD88-independent toll-like receptor signaling pathway; toll-like receptor 3 signaling pathway; signal transduction; toll-like receptor 10 signaling pathway; toll-like receptor 2 signaling pathway; activation of NF-kappaB transcription factor; MyD88-dependent toll-like receptor signaling pathway; toll-like receptor 5 signaling pathway; toll-like receptor signaling pathway; positive regulation of interferon type I production; innate immune response; toll-like receptor 9 signaling pathway; toll-like receptor 4 signaling pathway
Research Articles on NFKBIB	**1.** NFKBIBrs3136641TT single nucleotide polymorphism was associated with a significantly decreased risk of developing wheezing.
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