NFKBIE Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	NFKBIE, Monoclonal Antibody
Full Product Name	NFKBIE (Nuclear Factor of kappa Light Polypeptide Gene Enhancer in B-Cells Inhibitor, epsilon, IKBE) (MaxLight 405)
Product Gene Name	anti-NFKBIE antibody
Product Synonym Names	Nuclear Factor of kappa Light Polypeptide Gene Enhancer in B-Cells Inhibitor; epsilon; IKBE
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3F12
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified
Specificity	Recognizes NFKBIE.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	53kDa
OMIM	604548
3D Structure	ModBase 3D Structure for O00221
Immunogen	NFKBIE (NP_004547, 403aa-498aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	SGKTALHLAVETQERGLVQFLLQAGAQVDARMLNGCTPLHLAAGRGLMGISSTLCKAGADSLLRNVEDETPQDLTEESLVLLPFDDLKISGKLLLC
Conjugate	MaxLight405
Product Categories/Family for anti-NFKBIE antibody	Antibodies; Protein Kinase Inhibitors
Applications Tested/Suitable for anti-NFKBIE antibody	FLISA, Western Blot (WB)
Application Notes for anti-NFKBIE antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-NFKBIE 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, MIM 604495), 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). For some genes, activation requires NFKB interaction with other transcription factors, such as STAT (see STAT6, MIM 601512), AP1 (JUN, MIM 165160), and NFAT (see NFATC1, MIM 600489). [supplied by OMIM]
Other Notes	Small volumes of anti-NFKBIE 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 NFKBIE purchase	MBS6196912 is an antibody targeting NFKBIE. Also known as NFKBIE (Nuclear Factor of kappa Light Polypeptide Gene Enhancer in B-Cells Inhibitor, epsilon, IKBE) (MaxLight 405). Host: Mouse.

ADDITIONAL DETAILS

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

NCBI GI #	71274109
NCBI GeneID	4794
NCBI Accession #	NP_004547
UniProt Primary Accession #	O00221
UniProt Related Accession #	O00221
GenBank Nucleotide #	NM_004556
NCBI Official Full Name	NF-kappa-B inhibitor epsilon
NCBI Official Synonym Full Names	NFKB inhibitor epsilon
NCBI Official Symbol	NFKBIE
NCBI Official Synonym Symbols	IKBE
UniProt Protein Name	NF-kappa-B inhibitor epsilon
UniProt Synonym Protein Names	I-kappa-B-epsilon
Protein Family	NF-kappa-B inhibitor
UniProt Gene Name	NFKBIE
UniProt Synonym Gene Names	IKBE; NF-kappa-BIE; IkB-E; IkB-epsilon
UniProt Entry Name	IKBE_HUMAN
NCBI Protein Information	NF-kappa-B inhibitor epsilon
NCBI Summary for NFKBIE	The protein encoded by this gene binds to components of NF-kappa-B, trapping the complex in the cytoplasm and preventing it from activating genes in the nucleus. Phosphorylation of the encoded protein targets it for destruction by the ubiquitin pathway, which activates NF-kappa-B by making it available to translocate to the nucleus. [provided by RefSeq, Sep 2011]

UniProt Comments for NFKBIE	IkB-epsilon: Inhibits NF-kappa-B by complexing with and trapping it in the cytoplasm. Inhibits DNA-binding of NF-kappa-B p50-p65 and p50-c-Rel complexes. Interacts with RELA, REL, NFKB1 nuclear factor NF-kappa-B p50 subunit and NFKB2 nuclear factor NF-kappa-B p52 subunit. Highly expressed in spleen, testis and lung, followed by kidney, pancreas, heart, placenta and brain. Also expressed in granulocytes and macrophages. Belongs to the NF-kappa-B inhibitor family. Protein type: Inhibitor; DNA-binding Chromosomal Location of Human Ortholog: 6p21.1 Cellular Component: Golgi apparatus; perinuclear region of cytoplasm; cytoplasm; cytosol Molecular Function: protein binding Biological Process: cytoplasmic sequestering of transcription factor; D-serine transport
Research Articles on NFKBIE	**1.** identify NFKBIE aberrations as a common genetic event across B-cell malignancies and highlight NFKBIE deletions as a novel poor-prognostic marker in PMBL.
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