NFKBIA cDNA Clone – Nuclear Factor of Kappa Light Polypeptide Gene Enhancer in B-Cells Inhibitor, Alpha (Human)

PRODUCT OVERVIEW

Product Name	NFKBIA, cDNA Clone
Full Product Name	NFKBIA cDNA Clone
Product Gene Name	NFKBIA cdna clone
Sequence	atgttccagg cggccgagcg cccccaggag tgggccatgg agggcccccg cgacgggctg aagaaggagc ggctactgga cgaccgccac gacagcggcc tggactccat gaaagacgag gagtacgagc agatggtcaa ggagctgcag gagatccgcc tcgagccgca ggaggtgccg cgcggctcgg agccctggaa gcagcagctc accgaggacg gggactcgtt cctgcacttg gccatcatcc atgaagaaaa ggcactgacc atggaagtga tccgccaggt gaagggagac ctggctttcc tcaacttcca gaacaacctg cagcagactc cactccactt ggctgtgatc accaaccagc cagaaattgc tgaggcactt ctgggagctg gctgtgatcc tgagctccga gactttcgag gaaatacccc cctacacctt gcctgtgagc agggctgcct ggccagcgtg ggagtcctga ctcagtcctg caccaccccg cacctccact ccatcctgaa ggctaccaac tacaatggcc acacgtgtct acacttagcc tctatccatg gctacctggg catcgtggag cttttggtgt ccttgggtgc tgatgtcaat gctcaggagc cctgtaatgg ccggactgcc cttcacctcg cagtggacct gcaaaatcct gacctggtgt cactcctgtt gaagtgtggg gctgatgtca acagagttac ctaccagggc tattctccct accagctcac ctggggccgc ccaagcaccc ggatacagca gcagctgggc cagctgacac tagaaaacct tcagatgctg ccagagagtg aggatgagga gagctatgac acagagtcag agttcacgga gttcacagag gacgagctgc cctatgatga ctgtgtgttt ggaggccagc gtctgacgtt atga
Molecular Weight	35,609 Da
OMIM	164008
Vector	Please Inquire
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for NFKBIA cdna clone	MBS1270069 is a cDNA clone targeting NFKBIA.
Other Notes	Small volumes of NFKBIA cdna clone 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.

ADDITIONAL DETAILS

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

NCBI GI #	13436415
NCBI GeneID	4792
NCBI Accession #	BC004983
UniProt Secondary Accession #	B2R8L6
UniProt Related Accession #	P25963
NCBI Official Full Name	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha, mRNA
NCBI Official Synonym Full Names	NFKB inhibitor alpha
NCBI Official Symbol	NFKBIA
NCBI Official Synonym Symbols	IKBA; MAD-3; NFKBI
UniProt Protein Name	NF-kappa-B inhibitor alpha
UniProt Synonym Protein Names	I-kappa-B-alpha; IkB-alpha; IkappaBalpha; Major histocompatibility complex enhancer-binding protein MAD3

Protein Family	NF-kappa-B inhibitor
UniProt Gene Name	NFKBIA
UniProt Synonym Gene Names	IKBA; MAD3; NFKBI; IkB-alpha; IkappaBalpha
UniProt Entry Name	IKBA_HUMAN
NCBI Protein Information	NF-kappa-B inhibitor alpha
NCBI Summary for NFKBIA	This gene encodes a member of the NF-kappa-B inhibitor family, which contain multiple ankrin repeat domains. The encoded protein interacts with REL dimers to inhibit NF-kappa-B/REL complexes which are involved in inflammatory responses. The encoded protein moves between the cytoplasm and the nucleus via a nuclear localization signal and CRM1-mediated nuclear export. Mutations in this gene have been found in ectodermal dysplasia anhidrotic with T-cell immunodeficiency autosomal dominant disease. [provided by RefSeq, Aug 2011]
UniProt Comments for NFKBIA	IkB-alpha: a regulatory protein that inhibits NF-kappa-B by complexing with and trapping it in the cytoplasm. May be involved in regulation of transcriptional responses to NF-kappa-B, including cell adhesion, immune and proinflammatory responses, apoptosis, differentiation and growth. Controlled by sequential serine-phosphorylation, ubiquitination and degradation. Protein type: DNA-binding; Inhibitor Chromosomal Location of Human Ortholog: 14q13 Cellular Component: cytoplasm; cytosol; nucleus; plasma membrane Molecular Function: enzyme binding; identical protein binding; NF-kappaB binding; nuclear localization sequence binding; protein binding; transcription factor binding; ubiquitin protein ligase binding Biological Process: activation of NF-kappaB transcription factor; apoptosis; cytoplasmic sequestering of NF-kappaB; cytoplasmic sequestering of transcription factor; inhibition of NF-kappaB transcription factor; negative regulation of apoptosis; positive regulation of cellular protein metabolic process; positive regulation of transcription from RNA polymerase II promoter; stimulatory C-type lectin receptor signaling pathway; T cell receptor signaling pathway Disease: Ectodermal Dysplasia, Anhidrotic, With T-cell Immunodeficiency, Autosomal Dominant
Research Articles on NFKBIA	**1.** the rs3138053 polymorphism of NFKBIA gene is a candidate for susceptibility to overall cancers, while rs696 plays a protective role [meta-analysis]
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