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Product datasheet for SC118627

IKB beta (NFKBIB) (NM_002503) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKB beta (NFKBIB) (NM_002503) Human Untagged Clone
Tag:	Tag Free
Symbol:	IKB beta
Synonyms:	IKBB; TRIP9
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002503, the custom clone sequence may differ by one or more nucleotides

ATGGCTGGGGTCGCGTGCTTGGGAAAAGCTGCCGACGCAGATGAATGGTGCGACAGCGGCCTGGGCTCCC
TGGGTCCGGACGCAGCGGCCCCCGGAGGACCTGGGTTGGGCGCGGAGTTGGGCCCGGGGCTGTCGTGGGC
TCCCCTCGTCTTCGGCTACGTCACTGAGGATGGGGACACGGCACTGCACTTGGCTGTGATTCATCAGCAT
GAACCCTTCCTGGATTTTCTTCTAGGCTTCTCGGCCGGCACTGAGTACATGGACCTGCAGAATGACCTAG
GCCAGACAGCCCTGCACCTGGCAGCCATCCTGGGGGAGACATCCACGGTGGAGAAGCTGTACGCAGCAGG
CGCCGGGCTGTGTGTGGCGGAGCGTAGGGGCCACACGGCGCTGCACCTGGCCTGCCGTGTGGGGGCACAC
GCCTGTGCCCGTGCCCTGCTTCAGCCCCGCCCCCGGCGCCCCAGGGAAGCCCCCGACACCTACCTCGCTC
AGGGCCCTGACCGTACTCCCGACACCAACCATACCCCTGTCGCCTTGTACCCCGATTCCGACTTGGAGAA
GGAAGAAGAGGAGAGTGAGGAGGACTGGAAGCTGCAGCTGGAGGCTGAAAACTACGAGGGCCACACCCCA
CTCCACGTGGCCGTTATCCACAAAGATGTGGAGATGGTCCGGCTGCTCCGAGATGCTGGAGCTGACCTTG
ACAAACCGGAGCCCACGTGCGGCCGGAGCCCCCTTCATTTGGCAGTGGAGGCCCAGGCAGCCGATGTGCT
GGAGCTTCTCCTGAGGGCAGGCGCGAACCCTGCTGCCCGCATGTACGGTGGCCGCACCCCACTCGGCAGT
GCCATGCTCCGGCCCAACCCCATCCTCGCCCGCCTCCTCCGTGCACACGGAGCCCCTGAGCCCGAGGGCG
AGGACGAGAAATCCGGCCCCTGCAGCAGCAGTAGCGACAGCGACAGCGGAGACGAGGGCGATGAATACGA
CGACATTGTGGTTCACAGCAGCCGCAGCCAAACCCGGCTGCCTCCCACCCCAGCCTCAAAACCTCTTCCT
GACGACCCCCGCCCCGTGTGA

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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_002503 unedited
CAGAAATTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACCAGCCCAGCTAC
AGGCGGGCGACTGCGGGGGGCCCCTGAGGCGGCGGGGGCCATGGCTGGGGTCGCGTGCTT
GGGAAAAGCTGCCGACGCAGATGAATGGTGCGACAGCGGCCTGGGCTCCCTGGGTCCGGA
CGCAGCGGCCCCCGGAGGACCTGGGTTGGGCGCGGAGTTGGGCCCGGGGCTGTCGTGGGC
TCCCCTCGTCTTCGGCTACGTCACTGAGGATGGGGACACGGCACTGCACTTGGCTGTGAT
TCATCAGCATGAACCCTTCCTGGATTTTCTTCTAGGCTTCTCGGCCGGCACTGAGTACAT
GGACCTGCAGAATGACCTAGGCCAGACAGCCCTGCACCTGGCAGCCATCCTGGGGGAGAC
ATCCACGGTGGAGAAGCTGTACGCAGCAGGCGCCGGGCTGTGTGTGGCGGAGCGTAGGGG
CCACACGGCGCTGCACCTGGCCTGCCGTGTGGGGGCACACGCCTGTGCCCGTGCCCTGCT
TCAGCCCCGCCCCCGGCGCCCCAGGGAAGCCCCCGACACCTACCTCGCTCAGGGCCCTGA
CCGTACTCCCGACACCAACCATACCCCTGTCGCCTTGTACCCCGATTCCGACTTGGAGAA
GGAAGAAGAGGAGAGTGAGGAGGACTGGAAGCTGCAGCTGGAGGCTGAAAACTACGAGGG
CCACACCCCACTCCACGTGGCCGTTATCCACAAAGATGTGGAGATGGTCCGGCTGCTCCG
AGATGCTGAGCTGACCTTGACANACCGGAGCCCACGTGCGGNCGGAGCCCCTTCATTTGG
CAGTGGNAGCCCAGCAGNCGATGTGCTGGAGCTCTNCTGAGGGCAGCGCGAACCTGCTGN
CGCATGTACGGTGGCCGCACCCACCTCGNNAGTGCATGCTCGGCCAACCCTNCTNGNCGN
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Restriction Sites: NotI-NotI

ACCN: NM_002503

Insert Size: 1290 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: NM_002503.3, NP_002494.2

RefSeq Size: 1198 bp

RefSeq ORF: 1071 bp

Locus ID: 4793

UniProt ID: Q15653

Cytogenetics: 19q13.2

Domains: ANK

Protein Families: Stem cell - Pluripotency, Transcription Factors

Protein Pathways: Adipocytokine signaling pathway, B cell receptor signaling pathway, Chemokine signaling pathway, Cytosolic DNA-sensing pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, RIG-I-like receptor signaling pathway, T cell receptor signaling pathway

Gene Summary: 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]
Transcript Variant: This variant (1) represents the predominant transcript and encodes the longest isoform (1).