

## Product datasheet for **RC200711**

### **IKB alpha (NFKBIA) (NM\_020529) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IKB alpha (NFKBIA) (NM_020529) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IKB alpha
Synonyms:	EDAID2; IKBA; MAD-3; NFKBI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200711 representing NM_020529 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTCCAGGCGGCCGAGCGCCCCAGGAGTGGGCCATGGAGGGCCCCGCGACGGGCTGAAGAAGGAGC  
GGCTACTGGACGACCGCCACGACAGCGGCTGGACTCCATGAAAGACGAGGAGTACGAGCAGATGGTCAA  
GGAGCTGCAGGAGATCCGCCTCGAGCCGAGGAGGTGCCGCGGGCTCGGAGCCCTGGAAGCAGCAGCTC  
ACCGAGGACGGGACTCGTTCCTGCACTTGGCCATCATCCATGAAGAAAAGGCACTGACCATGGAAGTGA  
TCCGCCAGGTGAAGGGAGACCTGGCCTTCTCACTTCCAGAACAACCTGCAGCAGACTCCACTCCACTT  
GGCTGTGATACCAACCAGCCAGAAATTGCTGAGGCATCTCTGGGAGCTGGCTGTGATCCTGAGCTCCGA  
GACTTTCGAGGAAATACCCCTACACCTTGCTGTGAGCAGGGCTGCCTGGCCAGCGTGGGAGTCTCTGA  
CTCAGTCTGCACCACCCGACCTCCACTCCATCCTGAAGGCTACCAACTACAATGGCCACACGTGTCT  
ACACTTAGCCTCTATCCATGGCTACCTGGGCATCGTGGAGCTTTTGGTGTCTTGGGTGCTGATGTCAAT  
GCTCAGGAGCCCTGTAATGGCCGGACTGCCCTTACCTCGCAGTGGACCTGCAAAATCCTGACCTGGTGT  
CACTCCTGTTGAAGTGTGGGCTGATGTCAACAGAGTTACCTACCAGGGCTATTCTCCCTACCAGCTCAC  
CTGGGGCCGCCAAGCACCCGGATACAGCAGCAGCTGGCCAGCTGACACTAGAAAACCTTCAGATGCTG  
CCAGAGAGTGAGGATGAGGAGAGCTATGACACAGAGTCAGAGTTCACGGAGTTCACAGAGGACGAGCTGC  
CCTATGATGACTGTGTGTTGGAGGCCAGCGTCTGACGTTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)



**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_020529.3](#)

**RefSeq Size:** 1550 bp

**RefSeq ORF:** 954 bp

**Locus ID:** 4792

**UniProt ID:** [P25963](#)

**Cytogenetics:** 14q13.2

**Domains:** ANK

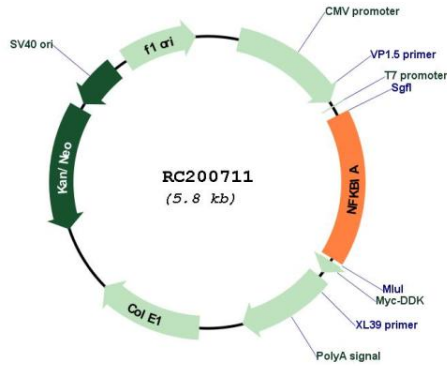
**Protein Families:** Druggable Genome

**Protein Pathways:** Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Cytosolic DNA-sensing pathway, Epithelial cell signaling in Helicobacter pylori infection, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Pathways in cancer, Prostate cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway

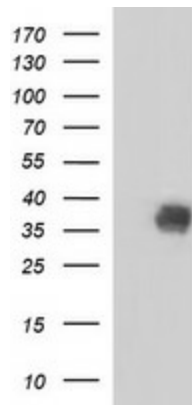
**MW:** 35.4 kDa

**Gene Summary:** 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]

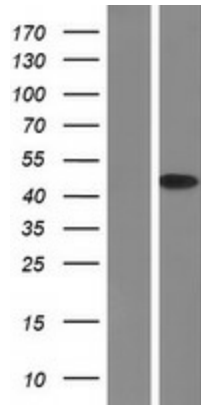
**Product images:**



Circular map for RC200711



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NFKBIA (Cat# RC200711, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NFKBIA(Cat# [TA507178]). Positive lysates [LY412432] (100ug) and [LC412432] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY412432]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200711 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NFKBIA protein (Cat# [TP300711]). The protein was produced from HEK293T cells transfected with NFKBIA cDNA clone (Cat# RC200711) using MegaTran 2.0 (Cat# [TT210002]).