

Product datasheet for **RC204248**

NKIRAS1 (NM_020345) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NKIRAS1 (NM_020345) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NKIRAS1
Synonyms: kappaB-Ras1; KBRAS1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC204248 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGAAAGGGCTGCAAGTTGTGGTTTGTGGATTGTTATCTGTGGGAAAACGCAATTTGGAGCAGC
 TCCTTTATGAAATCATACTATTGGAATGGAAGATTGCGAAACAATGGAAGATGTATACATGGCTTCAGT
 AGAAACAGACCGAGGAGTAAAAGAACAGTTACATCTTTATGACACCAGAGGTCTACAGGAAGCGTGGAG
 CTGCCAAAGCATTATTTTCATTTGCTGATGGCTTCGTTCTTGTGTACAGTGTGAATAACCTTGAATCCT
 TTCAAAGAGTGGAGCTTCTGAAGAAAGAAATCGATAAGTTCAAAGACAAAAAGAGGTAGCAATTGTGGT
 ATTAGGAAACAAAATCGACCTTTCTGAGCAGAGACAAGTGGACGCTGAAGTGGCAGCAGTGGGCAAAA
 AGTGAGAAAGTAAGACTGTGGGAGGTGACTGTTACAGATCGGAAAACCTGATTGAACCATTCACTTTAT
 TAGCCAGTAACTTTCTCAACCCAGAGCAAATCAAGCTTTCCTTTCCTGGCTGGGAGGAAAAACAAAGGAA
 CTCTAATTCTGAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204248 protein sequence
 Red=Cloning site Green=Tags(s)

MGKCKVVCGLLSVGKTAILEQLLYGNHTIGMEDCETMEDVYMASVETDRGVKEQLHL YDTRGLQEGVE
 LPKHYSFADGFVLVYSVNNLESFQRVLLKKEIDKFKDKKEVAIVVLGNKIDLSEQRQVDAEVAQQWAK
 SEKVRLEWVTVDRKTLIEPFTLLASKLSQPQSKSSFPLPGRKKNKGNSEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



UniProt ID: [Q9NYS0](#)

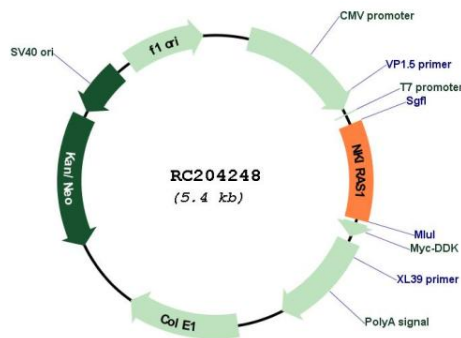
Cytogenetics: 3p24.2

Domains: ras, RAS, RAB

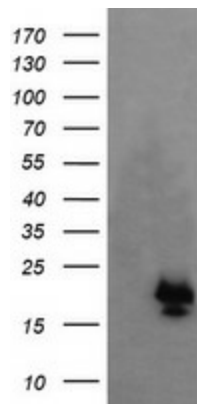
MW: 21.6 kDa

Gene Summary: Atypical Ras-like protein that acts as a potent regulator of NF-kappa-B activity by preventing the degradation of NF-kappa-B inhibitor beta (NFKBIB) by most signals, explaining why NFKBIB is more resistant to degradation. May act by blocking phosphorylation of NFKBIB and mediating cytoplasmic retention of p65/RELA NF-kappa-B subunit. It is unclear whether it acts as a GTPase. Both GTP- and GDP-bound forms block phosphorylation of NFKBIB. [UniProtKB/Swiss-Prot Function]

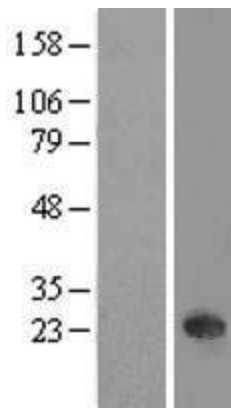
Product images:



Circular map for RC204248



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NKIRAS1 (Cat# RC204248, 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-NKIRAS1 (Cat# [TA505394]). Positive lysates [LY412541] (100ug) and [LC412541] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY412541]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204248 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NKIRAS1 protein (Cat# [TP304248]). The protein was produced from HEK293T cells transfected with NKIRAS1 cDNA clone (Cat# RC204248) using MegaTran 2.0 (Cat# [TT210002]).