

Product datasheet for RC203969

PLEKHO1 (NM_016274) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLEKHO1 (NM_016274) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PLEKHO1
Synonyms:	CKIP-1; CKIP1; JBP; OC120
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203969 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGAAGAAGAACAATTCGCCAAGCGGGACCTCAGGATGGAACCAGCAGCCTGCACCGCCGAGA
AGGTCGGCTGGTCCGAAATTCGCGGAAAGGGATTTTCAGGGAGATTTGGAAAAACCGCTATGTGGT
GCTGAAAGGGGACCAGCTCTACATCTCTGAGAAGGAGGTAAAAGATGAGAAAAATATTCAAGAGGTATTT
GACCTGAGTGACTATGAGAAGTGTGAAGAGCTCCGGAAGTCCAAGAGCAGGAGCAAGAAAAATCATAGCA
AGTTTACTCTTGCCCACTCCAAACAGCCCGGTAACACGGCACCCAACCTGATCTTCTGGCAGTGAGTCC
AGAAGAGAAGGAATCGTGGATCAATGCCCTCAACTCTGCCATCACCCGAGCAAGAACCCTATCTTGGAT
GAGGTCACCGTTGAGGAGGACAGCTATCTTGCCATCCCACTCGAGACAGGGCAAAAAATCCAGCACTCCC
GCCGCCCCCAACAAGGGGACACCTAATGGCTGTGGCTTCCACCTCTACCTCGGATGGGATGCTGACCTT
GGACTTGATCCAAGAGGAAGACCCTTCCCTGAGGAACCAACCTCTTGTGCTGAGAGCTTTCGGGTTGAC
CTGGACAAGTCTGTGGCCAGCTGGCAGGGAGCCGGGAGAGCGGACTCAGACCGCATCCAGCCCTCCG
CAGACCGGGCAAGCAGTCTCTCCGACCTTGGGAAAAACAGACAAGGGGCCACCTACACCCCCAGGC
ACCCAAGAAGTTGACGCCACAGAGAAAGGCCGCTGCGCCTCCCTGGAGGAGATCCTATCTCAGCGGGAT
GCTGCCCTGCCCGCACCTCCAGCTGCGGGCTGAGGAACCCCAACCCCTGCCCTCCCAACCCGGGGC
AGCTGTCCCGGATCCAGGACCTGGTAGCAAGGAACTGGAGGAGACTCAGGAGCTTCTGGCAGAGGTTCA
GGGACTGGGAGATGGGAAGCGAAAGGCCAAGGACCCCTCGGTCTCCGCGGATTCTGAGTCAGAGCAG
CTGCTGCTGGAGACGGAACGGCTGCTGGGAGAGGCATCATCGAATTGGAGCCAGGCAAAGAGGGTCTGC
AGGAGGTCAGGGAGCTGAGAGACCTGTACAGACAGATGGACCTGCAGACCCCGGACTCCACCTCAGACA
GACCACCCGCACAGTACGTAACCGAAGAGCCTGATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_016274.6](#)

RefSeq Size: 1627 bp

RefSeq ORF: 1230 bp

Locus ID: 51177

UniProt ID: [Q53GL0](#)

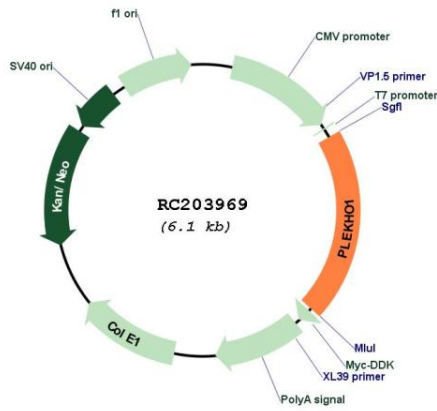
Cytogenetics: 1q21.2

Domains: PH

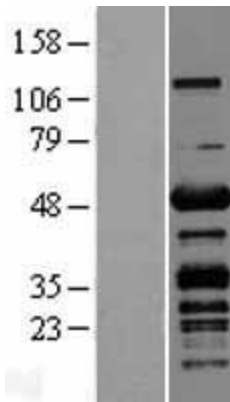
MW: 46.2 kDa

Gene Summary: Plays a role in the regulation of the actin cytoskeleton through its interactions with actin capping protein (CP). May function to target CK2 to the plasma membrane thereby serving as an adapter to facilitate the phosphorylation of CP by protein kinase 2 (CK2). Appears to target ATM to the plasma membrane. Appears to also inhibit tumor cell growth by inhibiting AKT-mediated cell-survival. Also implicated in PI3K-regulated muscle differentiation, the regulation of AP-1 activity (plasma membrane bound AP-1 regulator that translocates to the nucleus) and the promotion of apoptosis induced by tumor necrosis factor TNF. When bound to PKB, it inhibits it probably by decreasing PKB level of phosphorylation.[UniProtKB/Swiss-Prot Function]

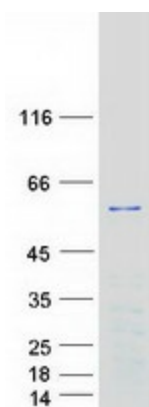
Product images:



Circular map for RC203969



Western blot validation of overexpression lysate (Cat# [LY414081]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203969 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PLEKHO1 protein (Cat# [TP303969]). The protein was produced from HEK293T cells transfected with PLEKHO1 cDNA clone (Cat# RC203969) using MegaTran 2.0 (Cat# [TT210002]).