

Recombinant Human ROCK2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ROCK2-1165H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ROCK2 MS Standard C13 and N15-labeled recombinant protein (NP_004841) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a serine/threonine kinase that regulates cytokinesis, smooth muscle contraction, the formation of actin stress fibers and focal adhesions, and the activation of the c-fos serum response element. This protein, which is an isozyme of ROCK1 is a target for the small GTPase Rho.
Molecular Mass	160.7 kDa
AA Sequence	MSRPPPTGKMPGAPETAPGDGAGASRQRKLEALIRDPRSPINVESLLDGLNSLVLDL DFPALRKNKNIDNFLNRYEKIVKKIRGLQMKAEYDVVKVIGRGAFGEVQLVRHKAS QKVYAMKLLSKFEMIKRSDSAFFWEERDIMAFANSPWVQLFYAFQDDRYLYMVME YMPGGDLVNLMSNYDVPEKWAKFYTAEVVLALDAIHSMLIHRDVKPDNMLLDKHG HLKLADFGTCMKMDETGMVHCDTAVGTPDYISPEVLKSQGGDGFYGRECDWWSV GVFLYEMLVGDTPFYADSLVGTYSKIMDHKNSLCFPEDAEISKHAKNLIACFLTREV RLGRNGVEEIRQHPFFKNDQWHWDNIRETAAPVPELSSDIDSSNFDDIEDDKGDV ETFPIPKAFVGNQLPFIGFTYYRENLLSDSPSCRETDSIQSRKNEESQEIQKKLYTLE EHLSNEMQAKEELEQKCKSVNTRLEKTAKELEEEITLRKSVESALRQLEREKALLQH

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

KNAEYQRKADHEADKKRNLENDVNSLKDQLEDLKKRNQNSQISTEKNQLQRQLDE
 TNALLRTESDTAARLRKTQAESSKQIQQLESNNRDLQDKNCLLETAKLKLEKEFINLQ
 SALESERRDRTHGSEIINDLQGRICGLEEDLKNGKILLAKVELEKRQLQERFTDLEKE
 KSNMEIDMTYQLKVIQQSLEQEEAEHKATKARLADKNKIYESIEEAKSEAMKEMEKKL
 LEERTLKQKVENLLLEAEKRCSLLDCDLKQSQQKINELLKQKDVNLNEDVRNLTLEKE
 ETQKRCLTQNDLKMQTQQVNTLKMSEKQLKQENNHLMEMKMNLEKQNAELRKER
 QDADGQMKEQLDQLEAEQYFSTLYKTQVRELKEECEETKLGLKELQKKQELQDE
 RDSLAAQLEITLTAKADSEQLARSIAEEQYSDLEKEKIMKELEIKEMMARHKQELTEKD
 ATIASLEETNRTLTSDEVANLANEKEELNNKLKDVQEQLSRLKDEEISAAAIAQFEKQL
 LTERTLKTQAVNKLAEIMNRKEPVKRGNDTDVRRKEKENRKLHMEKSEREKLTTQQ
 MIKYQKELNEMQAQIAEESQIRIELQMTLDSKDSIEQLRSQALHIGLDSSSIGSGP
 GDAEADDGFPESTRLEGWLSLPVRNNTKKFGWVKYVIVSSKILFYDSEQDKEQSN
 PYMVLIDKLFHVRPVTQTDVYRADAKEIPRIFQILYANEGESKKEQEPVPEVGEKS
 NYICHKGHEFIPTLYHFPTNCEACMKPLWHMFKPPPALCRRCHIKCHKDHMDKKE
 EIIAPCKVYYDISTAKNLLLLANSTEEQQKWVSRLVKKIPKPPAPDPFARSSPRTSM
 KIQNQSIIRPSRQLAPNKPSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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Gene Name	ROCK2 Rho associated coiled-coil containing protein kinase 2 [Homo sapiens (human)]
Official Symbol	ROCK2
Synonyms	ROCK2; Rho-associated, coiled-coil containing protein kinase 2; rho-associated protein kinase 2; p164 ROCK-2; rho-associated, coiled-coil-containing protein kinase II; ROCK-II; KIAA0619;
Gene ID	9475
mRNA Refseq	NM_004850
Protein Refseq	NP_004841
MIM	604002
UniProt ID	O75116
SDS-PAGE	