

Product datasheet for TP317764M

ROCK2 (NM_004850) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human Rho-associated, coiled-coil containing protein kinase 2 (ROCK2), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC217764 representing NM_004850 Red=Cloning site Green=Tags(s)

MSRPPPTGKMPGAPETAPGDGAGASRQRKLEALIRDPRSPINVESLLDGLNSLVLDLDFPALRKNKNIDN
FLNRYEKIVKKIRGLQMKAEYDVVKVIGRGAFFGEVQLVRHKASQKVYAMKLLSKFEMIKRSDSAFFWEE
RDIMAFANSPWVWQLFYAFQDDRYLYMVMMEYMPGGDLVNLMSNYDVPEKWAKFYAEVVLALDAIHSMLG
IHRDVKPDNMLLDKHGHLKLADFGTCMKMDETGMVHCDTAVGTPDYISPEVLKSQGGDGFYGRECDWWSV
GVFLYEMLVGDTPFYADSLVGTYSKIMDHKNSLCFPEDAIEISKHAKNLICAFITDREVRGRNGVEEIRQ
HPFFKNDQWHWDNIRETAAPVPELSSDIDSSNFDDIEDDKGDVETFPKAFVGNQLPFIGFTYYRENL
LLSDSPSCRETDSIQSRKNEESQEIQKLYTLEEHLNEMQAKEELEQKCKSVNTRLEKTAKELEEEITL
RKSVESALRQLEREKALLQHNAEYQRKADHEADKRNLENLVNSLKDQLEDLKKRNQNSQISTEKVNQL
QRQLDETNAALLRTESDAAARLKTQAESSKQIQLESNNRDLQDKNCLLETAKLKEKEFINLQSALESE
RRDRTHGSEIINDLQGRICGLEEDLKNKILLAKVELEKRQLQERFTDLEKEKSNMEIDMTYQLKVIQQS
LEQEEAEHKATKARLADKNKIYESIEEAKSEAMKEMEKKLEERTLKQKVENLLLEAEKRCSLLDCDLKQ
SQQKINELLKQKDVNLNEDVRNLTLEKIEQETQKRCLTQNDLKMQTQQVNTLKMSEKQLKQENHLMEMKMN
LEKQNAELRKERQDADGQMKELQDQLEAEQYFSTLYKTQVRELKEECEKTKLQKELQKQKQELQDERDS
LAAQLEITLTKADSEQLARSIAEEQYSDLEKEKIMKELEIKEMMARHKQELTEKDATIASLEETNRTLTS
DVANLANEKEELNNKLDVQEQLSRLKDEEISAAAIKAQFEKQLLTERTLKTQAVNKLAEIMNRKEPVKR
GNDTDVRRKEKENRKLHMEKSEREKLQQMIKYQKELNEMQAQIAEESQIRIELQMTLDSKSDSIEQLR
SQLQALHIGLDSSSIGSGPGDAEADDGFPEERLEGWLSLVRNNTKFKGWVKYVIVSSKILFYDSEQD
KEQSNPYMVLIDKLFHVRPVTQTDVYRADAKEIPRIFQILYANEGESKKEQEPVPEVGEKSNYICHKG
HEFIPTLYHFPTNCEACMKPLWHMFKPPPALCRRCHIKCHKDHMDKKEEIIAPCKVYYDISTAKNLLLL
ANSTEEQQKWSRLVKKIPKPPAPDPFARSSPRTSMKIQQNQSIRPSRQLAPNKPS

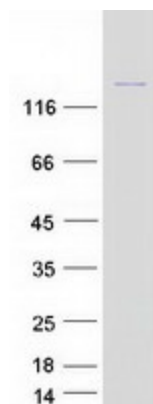
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	160.7 kDa



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Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_004841
Locus ID:	9475
UniProt ID:	O75116 , Q14DU5 , A0A2P9DU05
RefSeq Size:	6401
Cytogenetics:	2p25.1
RefSeq ORF:	4164
Synonyms:	ROCK-II
Summary:	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. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Axon guidance, Chemokine signaling pathway, Focal adhesion, Leukocyte transendothelial migration, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton, TGF-beta signaling pathway, Vascular smooth muscle contraction, Wnt signaling pathway

Product images:

Coomassie blue staining of purified ROCK2 protein (Cat# [TP317764]). The protein was produced from HEK293T cells transfected with ROCK2 cDNA clone (Cat# [RC217764]) using MegaTran 2.0 (Cat# [TT210002]).