

## Product datasheet for TP317764

### 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), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC217764 representing NM_004850 Red=Cloning site Green=Tags(s)

MSRPPPTGKMPGAPETAPGDGAGASRQRKLEALIRDPRSPINVESLLDGLNSLVLDLDFPALRKNKNIDN  
FLNRYEKIVKKIRGLQMKAEYDVKVIGRGAFFGEVQLVRHKASQKVYAMKLLSKFEMIKRSDSAFFWEE  
RDIMAFANSPWVWQLFYAFQDDRYLYMVMMEYMPGGDLVNLMSNYDVPEKWAKFYAEVVLALDAIHSMLG  
IHRDVKPDNMLLDKHGHLKLADFGTCMKMDETGMVHCDTAVGTPDYISPEVLKSQGGDGFYGRECDWWSV  
GVFLYEMLVGDTPFYADSLVGTYSKIMDHKNSLCFPEDAEISKHAKNLICAFITDREVRGRNGVEEIRQ  
HPFFKNDQWHWDNIRETAAPVPELSSDIDSSNFDDIEDDKGDVETFPKAFVGNQLPFIGFTYYRENL  
LLSDSPSCRETDSIQSRKNEESQEIQKKLYTLEEHLNEMQAKEELEQKCKSVNTRLEKTAKELEEEITL  
RKSVESALRQLEREKALLQHNAEYQRKADHEADKRNLENLVNSLKDQLEDLKKRNQNSQISTEKVNQL  
QRQLDETNAALRTESDTAARLRKTAESSKQIQQLESNNRDLQDKNCLLETAKLKEKEFINLQSALESE  
RRDRTHGSEIINDLQGRICGLEEDLKNKILLAKVELEKRQLQERFTDLEKEKSNMEIDMTYQLKVIQQS  
LEQEEAEHKATKARLADKNKIYESIEEAKSEAMKEMEKKLEERTLKQKVENLLLEAEKRCSLLDCDLKQ  
SQQKINELLKQKDVLNEDVRNLTLEKIEQETQKRCLTQNDLKMQTQQVNTLKMSEKQLKQENHLMEMKMN  
LEKQNAELRKERQDADGQMKELQDQLEAEQYFSTLYKTQVRELKEECEKTKLGKELQQKKQELQDERDS  
LAAQLEITLTKADSEQLARSIAEEQYSDLEKEKIMKELEIKEMMARHKQELTEKDATIASLEETNRTLTS  
DVANLANEKEELNNKLDVQEQLSRLKDEEISAAAIKAQFEKQLLTERTLKTQAVNKLAEIMNRKEPVKR  
GNDTDVRRKEKENRKLHMEKSEREKLQQMIKYQKELNEMQAQIAEESQIRIELQMTLDSKSDIEQLR  
SQLQALHIGLDSSSIGSGPGDAEADDGFPESRLEGWLSLPVRNNTKFKGWVKYVIVSSKILFYDSEQD  
KEQSNPYMVLIDKLFHVRPVTQTDVYRADAKEIPRIFQILYANEGESKKEQFPVPEVGEKSNYICHKG  
HEFIPTLYHFPTNCEACMKPLWHMFKPPPALCRRCHIKCHKDHMDKKEEIIAPCKVYDIDISTAKNLLLL  
ANSTEEQQKWSRLVKKIPKPPAPDPFARSSPRTSMKIQQNQSIRPSRQLAPNKPS

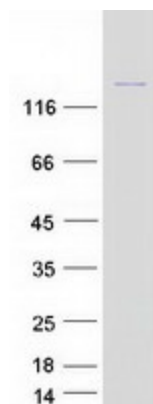
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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



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<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_004841</a>
<b>Locus ID:</b>	9475
<b>UniProt ID:</b>	<a href="#">O75116</a> , <a href="#">Q14DU5</a> , <a href="#">A0A2P9DU05</a>
<b>RefSeq Size:</b>	6401
<b>Cytogenetics:</b>	2p25.1
<b>RefSeq ORF:</b>	4164
<b>Synonyms:</b>	ROCK-II
<b>Summary:</b>	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]
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	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]).