

## Product datasheet for PH317764

### ROCK2 (NM\_004850) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ROCK2 MS Standard C13 and N15-labeled recombinant protein (NP_004841)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC217764
Predicted MW:	160.7 kDa
Protein Sequence:	>RC217764 representing NM_004850 Red=Cloning site Green=Tags(s)

MSRPPPTGKMPGAPETAPGDGAGASRQRKLEALIRDPRSPINVESLLDGLNSLVLDLDFPALRKNKNIDN  
FLNRYEKIVKKIRGLQMKAEYDVKVIGRGAFGEVQLVRHKASQKVYAMKLLSKFEMIKRSDSAFFWEE  
RDIMAFANSPVWVQLFYAFQDDRYLYMVMYMPGGDLVNLMSNYDPEKAWKAFYTAEVVLLALDAIHSML  
IHRDVKPDNMLLDKHGHLKLADFGTCMKMDETMVHCDTAVGTPDYISPEVLKSGGGDFYGRECDWWSV  
GVFLYEMLVGDTPFYADSLVGTYSKIMDHKNSLCPEDAIEISKHAKNLICAFITDREVRGRNGVEEIRQ  
HPFFKNDQWHWDNIRETAAPVPELSSDIDSSNFDDIEDDKGDVETFPKAFVGNQLPFIQFTYYRENL  
LLSDSPSCRETDISQSRKNEESQEIQKLYLTLLEHLNEMQAKEELEQKCKSVNTRLEKTAKELEEEITL  
RKSVEALSALRQLEREKALLQHNAEYQRKADHEADKRNLENDVNSLKDQLEDLKKRNQNSQISTEKVNQL  
QRQLDETALLRTESDTAARLRKTQAESSKQIQQLSNNRDLQDKNCLLETAKLLEKEFINLQSALESE  
RRDRTHGSEIINDLQGRICGLEEDLKNGKILLAKVELEKRQLQERFTDLEKEKSNMIDMTYQLKVIQQS  
LEQEEAEHKATKARLADKNKIYESIEEAKSEAMKEMEKKLLEERTLKQKVENLLLEAEKRCSLLDCDLKQ  
SQQKINELLKQKDVLNEDVRNLTLKIEQETQKRCLTQNDLKMQTQQVNTLKMSEKQLKQENNHLMEMKMN  
LEKQNAELRKERQDADGQMKELQDQLEAEQYFSTLYKTQVRELKEECEEKTKLGKELQKKQELQDERDS  
LAAQLEITLTKADSEQLARSAIEEQYSDLEKEKIMKELEIKEMMARHKQELTEKDATIASLEETNRTLTS  
DVANLANEKEELNNKLDVQEQLSRLKDEEISAAAIKAQFEKQLLTERTLKTQAVNKLAEIMNRKEPVKR  
GNDTDVRRKEKENRKLHMLKSEREKL TQQMICYQKELNEMQAQIAEESQIRIELQMTLDSKDSIEQLR  
SQLQALHIGLDSSSIGSGPGDAEADDGFPESRLEGWLSLPVRNNTKFGWVKYIVVSSKKILFYDSEQD  
KEQSNPYMVLIDIKLFHVRPVTQTDVYRADAKEIPRIFQILYANEGESKKEQEFVPEVGEKSNIYCHKG  
HEFIPTLYHFPTNCEACMKPLWHMFKPPPALCRRCHIKCHKDHMDKKEEIIAPCKVYDIISTAKNLLLL  
ANSTEEQQKWSRLVKKIPKPPAPDPFARSSPRTSMKIQQNQSIRRPSRQLAPNKPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

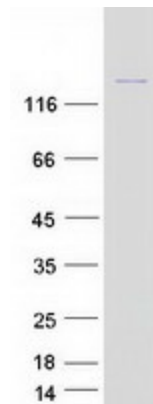
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method



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<b>Labeling Method:</b>	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3
<b>Storage:</b>	Store at -80°C. Avoid repeated freeze-thaw cycles.
<b>Stability:</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>RefSeq:</b>	<a href="#">NP_004841</a>
<b>RefSeq Size:</b>	6401
<b>RefSeq ORF:</b>	4164
<b>Synonyms:</b>	ROCK-II
<b>Locus ID:</b>	9475
<b>UniProt ID:</b>	<a href="#">O75116</a> , <a href="#">Q14DU5</a> , <a href="#">A0A2P9DU05</a>
<b>Cytogenetics:</b>	2p25.1
<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]).