

Product datasheet for PH303808

PYK2 (PTK2B) (NM_004103) Human Mass Spec Standard

Product data:

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| Product Type: | Mass Spec Standards |
| Description: | PTK2B MS Standard C13 and N15-labeled recombinant protein (NP_004094) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC203808 |
| Predicted MW: | 115.9 kDa |
| Protein Sequence: | >RC203808 protein sequence Red=Cloning site Green=Tags(s) |

MSGVSEPLSRVKLGLTLRPEGPAEPMVVVVDVEKEDVRIILKVCFYNSFNPGKNFKLVKCTVQTEIREI
ITSILLSGRIGPNIRLAECYGLRLKHMKSDEIHWLHPQMTVGEVQDKYECLHVEAEWRYDLQIRYLPEDF
MESLKEDRTLLYFYQQLRNDYMQRYASKVSEGMALQLGCLELRRFFKDMPHNALDKSNFELLEKEVGL
DLFFPKMQENLKPKQFRKMIQQTFQQYASLREEECVMKFFNTLAGFANIDQETYRCELIQGWNITVDLV
IGPKGIRQLTSQDAKPTCLAEFKQIRSIKPLLEEGQAVLQLGIEGAPQALSIKTSSELAENMADLIDG
YCRQLQGEHQGSLIIHPRKDGEKRNSLPQIPMLNLEARRSHLSESCSIESDIYAEIPDETLRRPGGPQYGI
AREDVVLNRILGEGFFGEVYEGVYTNHKGEKINVAVKTCCKDCTLDNKEKFMSEAVIMKNLDHPHIVKLI
GIIIEEPTWIIIMELYPYGELGHYLERKNKSLKVLTLVLYSLQICKAMAYLESINCVHRDIAVRNILVASP
ECVKLGDFGLSRYIEDYKASVTRLPIKWMSPESINFRRTTASDVVMFAVCMWEILSFGKQPFWFLE
NKDVIQVLEKGDRLPKPDLCPPVLYTLMTRCWDYDPSDRPRFTELVCSLSDVYQMEKDIAEQERNARYR
TPKILEPTAFQEPPPKSRPKYRPPPTNLLAPKLQFQVPEGLCASSPTLTSPMEYSPVNSLHTPPLHR
HNVFKRHSMEEDFIQSSREEAQQLWEAEKVKMRQILDQKQKQMVEDYQWLRQEEKSLDPMVYMNDKSP
LTPEKEVGYLEFTGPPQKPPRLGAQSIQPTANLDRDLDL VYLNVMELVRAVLELKNELCQLPPEGYVVVV
KNVGLTLRKLIGSVDDLPLSPSSSRTEIEGTQKLLNKDLAELINKMRLAQONAVTSLSEECKRQMLTAS
HTLAVDAKNLLDAVDQAKVLANLAHPPAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

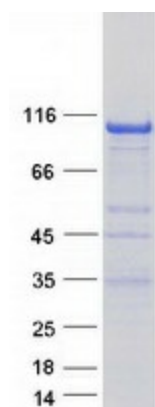
| | |
|------------------|--|
| Tag: | C-Myc/DDK |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Labeling Method: | Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3 |
| Storage: | Store at -80°C. Avoid repeated freeze-thaw cycles. |



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| Stability: | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| RefSeq: | NP_004094 |
| RefSeq Size: | 4193 |
| RefSeq ORF: | 3027 |
| Synonyms: | CADTK; CAKB; FADK2; FAK2; PKB; PTK; PYK2; RAFTK |
| Locus ID: | 2185 |
| UniProt ID: | Q14289 |
| Cytogenetics: | 8p21.2 |
| Summary: | <p>This gene encodes a cytoplasmic protein tyrosine kinase which is involved in calcium-induced regulation of ion channels and activation of the map kinase signaling pathway. The encoded protein may represent an important signaling intermediate between neuropeptide-activated receptors or neurotransmitters that increase calcium flux and the downstream signals that regulate neuronal activity. The encoded protein undergoes rapid tyrosine phosphorylation and activation in response to increases in the intracellular calcium concentration, nicotinic acetylcholine receptor activation, membrane depolarization, or protein kinase C activation. This protein has been shown to bind CRK-associated substrate, nephrocystin, GTPase regulator associated with FAK, and the SH2 domain of GRB2. The encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks significant sequence similarity to kinases from other subfamilies. Four transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> |
| Protein Families: | Druggable Genome, Protein Kinase |
| Protein Pathways: | Calcium signaling pathway, Chemokine signaling pathway, GnRH signaling pathway, Leukocyte transendothelial migration, Natural killer cell mediated cytotoxicity |

Product images:



Coomassie blue staining of purified PTK2B protein (Cat# [TP303808]). The protein was produced from HEK293T cells transfected with PTK2B cDNA clone (Cat# [RC203808]) using MegaTran 2.0 (Cat# [TT210002]).