

Product datasheet for PH305372

PYK2 (PTK2B) (NM_173174) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PTK2B MS Standard C13 and N15-labeled recombinant protein (NP_775266)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205372
Predicted MW:	115.7 kDa
Protein Sequence:	>RC205372 representing NM_173174 Red=Cloning site Green=Tags(s)

MSGVSEPLSRVKLGLTLRPEGPAEPMVVVVDVEKEDVRIILKVCFYNSFNPGKNFKLVKCTVQTEIREI
ITSILLSGRIGPNIRLAECYGLRLKHMKSDEIHWLHPQMTVGEVQDKYECLHVEAEWRYDLQIRYLPEDF
MESLKEDRTLLYFYQQLRNDYMQRYASKVSEGMALQLGCLELRRFFKDMPHNALDKSNFELLEKEVGL
DLFFPKMQENLKPKQFRKMIQQTFQYASLREEECVMKFFNTLAGFANIDQETYRCELIQGWNITVDLV
IGPKGIRQLTSQDAKPTCLAEFKQIRSIKPLLEEGQAVLQLGIEGAPQALSIKTSLLAEANMADLIDG
YCRQLQGEHQGSLIIHPRKDGEKRNLPQIPMLNLEARRSHLSESCSIESDIYAEIPDETLRRPGGPQYGI
AREDVVLNRILGEGFFGEVYEGVYTNHKGEKINVAVKTCCKDCTLDNKEKFMSEAVIMKNLDHPHIVKLI
GIIIEEPTWIIIMELYLYGELGHYLERKNKSLKVLTLVLYSLQICKAMAYLESINCVHRDIAVRNILVASP
ECVKLGDFGLSRYIEDYKASVTRLPIKWMSPESINFRRTTASDVVMFAVCMWEILSFGKQPFWLE
NKDVIQVLEKGDRLPKPDLCPVLYTLMTRCWDYDPSDRPRFTELVCSLSDVYQMEKDIAMEQERNARYR
TPKILEPTAFQEPKPSRPKYRPPQTNLLAPKLQFQVPEGLCASSPTLTSPMEYSPVNSLHTPPLHR
HNVFKRHSMEEDFIQPSREEAQQLWEAEKVKMRQILDQKQKQMVEDYQWLRQEEKSLDPMVYMNDS
LTPEKEVGYLEFTGPPQKPPRLGAQSIQPTANLDRDLDL VYLVNVMELVRAVLELKNELCQLPPEGYVVV
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.



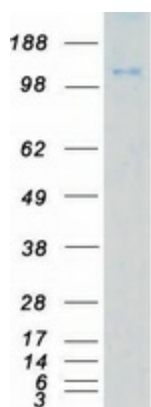
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Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_775266
RefSeq Size:	4715
RefSeq ORF:	3027
Synonyms:	CADTK; CAKB; FADK2; FAK2; PKB; PTK; PYK2; RAFTK
Locus ID:	2185
UniProt ID:	Q14289
Cytogenetics:	8p21.2
Summary:	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]

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# [TP305372]). The protein was produced from HEK293T cells transfected with PTK2B cDNA clone (Cat# [RC205372]) using MegaTran 2.0 (Cat# [TT210002]).