

## Product datasheet for TP317684L

### PYK2 (PTK2B) (NM\_173175) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human PTK2B protein tyrosine kinase 2 beta (PTK2B), transcript variant 4, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC217684 representing NM_173175 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MSGVSEPLSRVKLGLTLLRPEGPAEPMWVVPDVEKEDVRLKVCFYNSFNPGKNFKLVKCTVQTEIREI  
ITSILLSGRIGPNIRLAECYGLRLKHMKSDEIHWLHPQMTVGEVQDKYECLHVEAEWRYDLQIRYLPEDF  
MESLKEDRTTLLYFYQQLRNDYMQRYASKVSEGMALQLGCLELRRFFKDMPHNALDKSNFELLEKEVGL  
DLFFPKQMENLKPQFRKMIQQTFFQYASLREEECVMKFFNTLAGFANIDQETYRCELIQGWNITVDLV  
IGPKGIRQLTSQDAKPTCLAEFKQIRSIRCLPLEEGQAVLQLGIEGAPQALSITSSLAEENMADLIDG  
YCRLQGEHQGSLIIHPRKDGEKRNSLPQIPMLNLEARRSHLSESCSIESDIYAEIPDELRRPGGPQYGI  
AREDVWLNRLGEGFFGEVYEGVYTNHKGEKINVAVKTCCKDCTLDNKEKFMSEAVIMKNLDHPHIVKLI  
GIIIEEPTWIIMELYPYGELGHYLERKNKSLKVLTLVLYSLQICKAMAYLESINCVHRDIAVRNINLVASP  
ECVKLGDFGLSRYIEDEDYKASVTRLPIKWMSPESINFRFTTASDVWVFAVCMWEILSFGKQPFVWLE  
NKDVIGVLEKGDRLPKPDLCPVLYTLMTRCWDYDPSDRPRFTELVCSDVYQMEKDIAEQERNARYR  
TPKILEPTAFQEPKPSRPKYRPPPQTNLLAPKLQFQEEDFIQSSREEAQQWLWEAEKVKMRQILDKQQ  
KQMVEDYQWLRQEEKSLDPMVYMNDKSPLTPEKEVGYLEFTGPPQKPPRLGAQSIQPTANLDRDLDLVYL  
NVMELVWAVLELKNELCQLPPEGYVWVKNVGLTLRKLIGSVDDLPSLSSSRTEIEGTQKLLNKDLAE  
LINKMRLAQQNAVTSLSSEECKRQMLTASHTLAVDAKNLLDAVDQAKVLANLAHPPAE

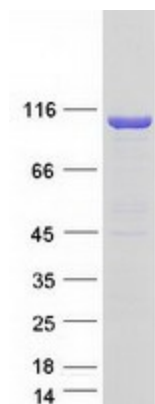
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	111 kDa
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



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<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_775267</a>
<b>Locus ID:</b>	2185
<b>UniProt ID:</b>	<a href="#">Q14289</a> , <a href="#">Q14289-2</a>
<b>RefSeq Size:</b>	3936
<b>Cytogenetics:</b>	8p21.2
<b>RefSeq ORF:</b>	2901
<b>Synonyms:</b>	CADTK; CAKB; FADK2; FAK2; PKB; PTK; PYK2; RAFTK
<b>Summary:</b>	<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>
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	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# [TP317684]). The protein was produced from HEK293T cells transfected with PTK2B cDNA clone (Cat# [RC217684]) using MegaTran 2.0 (Cat# [TT210002]).