

Product datasheet for **TP303808M**

PYK2 (PTK2B) (NM_004103) Human Recombinant Protein

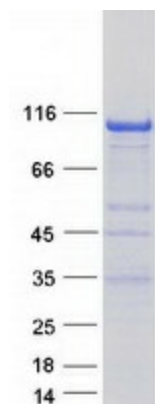
Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human PTK2B protein tyrosine kinase 2 beta (PTK2B), transcript variant 2, 100 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC203808 protein sequence Red =Cloning site Green =Tags(s) |
| | <p>MSGVSEPLSRVKLGLTLLRPEGPAEPMWVVPDVEKEDVRLKVCFYNSFNPNGKNFKLVKCTVQTEIREI ITSILLSGRIGPNIRLAECYGLRLKHMKSDEIHWLHPQMTVGEVQDKYECLHVEAEWRYDLQIRYLPEDF MESLKEDRTLLLYFYQQLRNDYMQRYASKVSEGMALQLGCLELRRFFKMPHNALDKSNFELLEKEVGL DLFFPKQMENLKPQFRKMIQQTFFQYASLREEECVMKFFNTLAGFANIDQETYRCELIQGWNITVDLV IGPKGIRQLTSQDAKPTCLAEFKQIRSIRCLPLEEGQAVLQLGIEGAPQALSIKTSSLAEENMADLIDG YCRLQGEHQGSLIIHPRKDGEKRNLSLPQIPMLNLEARRSHLSESCSIESDIYAEIPDETLRRPGGPQYGI AREDVWLNRLGEGFFGEVYEGVYTNHKGEKINVAVKTCCKDCTLDNKEKFMSEAVIMKNLNDHPHIVKLI GIIIEEPTWIIMELYPYGELGHYLERKNLSLKVLTLLVLSLQICKAMAYLESINCVHRDIAVRNINLVASP ECVKLGDFGLSRYIEDEDYKASVTRLPIKWMSPESINFRFTTASDVWVFAVCMWEILSFGKQPPFFWLE NKDVIGVLEKGDRLPKPDLCPVLYTLMTRCWDYDPSDRPRFTELVCSLSDVYQMEKDIAEQERNARYR TPKILEPTAFQEPKPSRPKYRPPPQTNLLAPKLQFQVPEGLCASSPTLTSPMEYPSVNSLHTPPLHR HNVFKRHSMREEDFIQSSREEAQQWLWEAEKVKMRQILDKQKQKQMVEDYQWLRQEEKSLDPMVYMNDKSP LTPEKEVGYLEFTGPPQKPPRLGAQSIQPTANLDRDLDLVYLNVMELVRVLELKNELCQLPPEGYWWW KNVGLTLRKLIGSVDDLPLSPSSSRTEIEGTQKLLNKDLAELINKMRLAQNAVTSLSSEEKQRQMLTAS HTLAVDAKNLLDAVDQAKVLANLAHPPAE</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p> |
| Tag: | C-Myc/DDK |
| Predicted MW: | 115.7 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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| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_004094 |
| Locus ID: | 2185 |
| UniProt ID: | Q14289 |
| RefSeq Size: | 4193 |
| Cytogenetics: | 8p21.2 |
| RefSeq ORF: | 3027 |
| Synonyms: | CADTK; CAKB; FADK2; FAK2; PKB; PTK; PYK2; RAFTK |
| 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# [TP303808]). The protein was produced from HEK293T cells transfected with PTK2B cDNA clone (Cat# [RC203808]) using MegaTran 2.0 (Cat# [TT210002]).