

Recombinant Human PTK2B Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PTK2B-545H Lot. No. (See product label)

SPECIFICATION

Product Overview

PTK2B MS Standard C13 and N15-labeled recombinant protein (NP_775267) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

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.

Molecular Mass

111 kDa

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AA Sequence

MSGVSEPLSRVKLGTLLRRPEGPAEPMVVVPVDVEKEDVRILKVCFYNSNFNPGKNF
 KLVKCTVQTEIREIITSILLSGRIGPNIRLAECYGLRLKHMKSDEIHHLHPQMTVGEVQ
 DKYECLHVEAEWRYDLQIRYLPEDFMESLKEDRTTLLYFYQQLRNDYMQRYASKVS
 EGMALQLGCLELRRFFKDMPHNALDKKSNFELLEKEVGLDLFFPKQMENLKPQKF
 RKMIQQTFFQQYASLREEECVMKFFNTLAGFANIDQETYRCELIQGWNITVDLVIGPK
 GIRQLTSQDAKPTCLAEFKQIRSIRCLPLEEGQAVLQLGIEGAPQALSIKTSSLAEAN
 MADLIDGYCRLQGEHQGSLIHRKDGKRNLSLPQIPMLNLEARRSHLSESCSIESDI
 YAEIPDETLRRPGGPQYGIAREDVVLNRLGEGFFGEVYEGVYTNHKGEKINVAVKT
 CKKDCTLDNKEKFMSEAVIMKNLDHPIVVKLIGIIEEPTWIIMELYPYGELGHYLERN
 KNSLKVLTVLVLSLQICKAMAYLESINCVHRDIAVRNILVASPECVKLGDFGLSRYIED
 EDYYKASVTRLPIKWMSPESINFRRFTTASDVWMFAVCMWEILSFGKQPFFWLENK
 DVIGVLEKGDRLPKPDLCPPVLYTLMTRCWDYDPSDRPRFTELVCSLSDVYQMEKDI
 AMEQERNARYRTPKILEPTAFQEPPPKPSRPKYRPPPQTNLLAPKLQFQEEDFIQPS
 SREEAQLLWEAEKVKMRQILDKQQKQMVEDYQWLRQEEKSLDPMVYMNDKSPLT
 PEKEVGYLEFTGPPQKPPRLGAQSIQPTANLDRDLDVYLNVMELVWAVLELKNELC
 QLPPEGYVVVKNVGLTLRKLIGSVDDLLPSLSSSRTEIEGTQKLLNKDLAELINKM
 RLAQQNAVTSLSSEECKRQMLTASHTLAVDAKNLLDAVDQAKVLANLAHPPAETRTR
 PLEQKLISEEDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Stability

Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration

50 µg/mL as determined by BCA

Storage Buffer

100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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GENE INFORMATION

Gene Name	PTK2B PTK2B protein tyrosine kinase 2 beta [Homo sapiens (human)]
Official Symbol	PTK2B
Synonyms	PTK2B; PTK2B protein tyrosine kinase 2 beta; FAK2, protein tyrosine kinase 2 beta; protein-tyrosine kinase 2-beta; CADTK; CAKB; PTK; PYK2; RAFTK; FADK 2; CAK-beta; protein kinase B; focal adhesion kinase 2; cell adhesion kinase beta; proline-rich tyrosine kinase 2; calcium-dependent tyrosine kinase; related adhesion focal tyrosine kinase; calcium-regulated non-receptor proline-rich tyrosine kinase; PKB; FAK2; FADK2;
Gene ID	2185
mRNA Refseq	NM_173175
Protein Refseq	NP_775267
MIM	601212
UniProt ID	Q14289

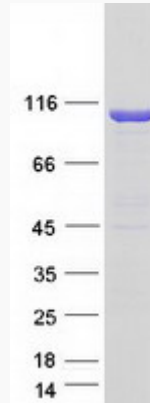
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SDS-PAGE



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