

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

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | PTK2B MS Standard C13 and N15-labeled recombinant protein (NP_775267) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</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.</p> |
| <b>Molecular Mass</b>   | 111 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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#### AA Sequence

MSGVSEPLSRVKLGTLLRPEGPAEPMVVVPVDVEKEDVRILKVCFYNSNSFNPNGKNF  
KLVKCTVQTEIREIITSILLSGRIGPNIRLAECYGLRLKHMKSDEIHWLHPQMTVGEVQ  
DKYECLHVEAEWRYDLQIRYLPEDFMESLKEDRTTLLYFYQQLRNDYMQRYSKVS  
EGMALQLGCLELRRFFKDMPHNALDKKSNFELLEKEVGDLDFFPKQMQUENLKPKQF  
RKMIQQTFFQYASLREEECVMKFFNTLAGFANIDQETYRCELIQGWNITVDLVIGPK  
GIRQLTSQDAKPTCLAEFKQIRSIRCLPLEEGQAVLQLGIEGAPQALSITSSSLAEAN  
MADLIDGYCRLQGEHQGSLIHPRKDGEKRNSLPQIPMLNLEARRSHLSESCSIESDI  
YAEIPDETLRRPGGPQYGIAREDVVLNRLGEGFFGEVYEGVYTNHKGEKINVAVKT  
CKKDCTLDNKEKFMSEAVIMKNLDHPIVVKLIGIIEEPTWIIMELYPYGELGHYLERN  
KNSLKVLTLVLYSLQICKAMAYLESINCVHRDIAVRNILVASPECVKLGDFGLSRYIED  
EDYYKASVTRLPIKWMSPESINFRRFTTASDVWMFAVCMWEILSFGKQPFFWLENK  
DVIGVLEKGDRLPKPDLCPVLYTLMTRCWDYDPSDRPRFTELVCSLSDVYQMEKDI  
AMEQERNARYRTPKILEPTAFQEPPPKPSRPKYRPPQTNLLAPKLQFQEEDFIQPS  
SREEAQQWLWEAEKVKMRQILDKQQKQMVEDYQWLRQEEKSLDPMVYMNDKSPLT  
PEKEVGYLEFTGPPQKPPRLGAQSIQPTANLDRDLDVYLVNVMELVWAVLELKNELC  
QLPPEGYVVVKNVGLTLRKLIGSVDDLLPSLPSSSRTEIEGTQKLLNKDLAELINKM  
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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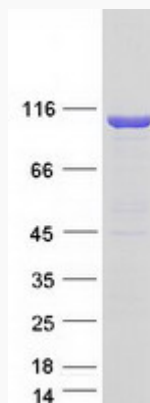
## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PTK2B PTK2B protein tyrosine kinase 2 beta [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Official Symbol</b> | PTK2B                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Synonyms</b>        | 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; |
| <b>Gene ID</b>         | 2185                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>mRNA Refseq</b>     | NM_173175                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Protein Refseq</b>  | NP_775267                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>MIM</b>             | 601212                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>UniProt ID</b>      | Q14289                                                                                                                                                                                                                                                                                                                                                                                                                              |

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**SDS-PAGE**

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