

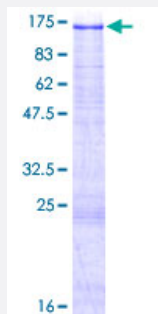
Full-Length

PTK2B (Human) Recombinant Protein (P01)

Catalog # H00002185-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PTK2B full-length ORF (AAH36651.1, 1 a.a. - 1009 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MSGVSEPLSRVKLGTLRRPEGPAEPMVVVPVDVEKEDVRILKVCFYNSFNPGKNFKLVKCTVQ
TEIREIITSILLSGRIGPNIRLAECYGLRLKHKMSDEIHWLHPQMTVGEVQDKYECLHVEAEWRYDLQI
RYLPEDFMESLKEDRTTLLYFYQQLRNDYMQRYASKVSEGMALQLGCLELRRFFKDMPHNALDK
KSNFELLEKEVGDLDFPKQMQUENLKPQFRKMIQQTFFQYASLREEECVMKFFNTLAGFANIDQ
ETRYCELIQGWNITVDLVIGPKGIRQLTSQDAKPTCLAEFKQIRSIKPLLEEGQAVLQLGIEGAPQA
LSIKTSSLAEAEENMADLIDGYCRLQGEHQGSLIIHPRKDGEKRNLSLPQIPMLNLEARRSHLSESCSI
ESDIYAEIPDETLRRPGGPQYGIAREDVVLNRILGEGFFGEVYEGVYTNHKGEKINAVKTCKKDC
LDNKEKFMSEAVIMKNLDHPIV/KLIGIEEPTWIMELYPYGEGLGHYLERKNLSKVLTLVLYSLQIC
KAMAYLESINCVHRDIAVRNIVASPECVKLGDFGLSRYIEDEDYKASVTRLPIKWMSPESINFRR
FTTASDVWMFAVCMWEILSFGKQPFFWLENKDVGIVLEKGDRLPKPDLCPVLYTLMTRCWDYD
PSDRPRFTLVCSLSDVYQMEKDIAEQERNARYRTPKILEPTAFQEPKPKSRPKYRPPQTNL
LAPKLQFQVPEGLCASSPTLTSPMEYSPVNSLHTPLHRHNVFKRHSREEDFIQPSSEEAQ
QLWEAEKVKMRQILDKQQKQMVEDYQWLRQEEKSLDPMVYMNDKSPLTPEKEVGYLEFTGPPQ
KPPRLGAQSIQPTANLDRDLDVYLNVMELVRVLELKNELCQLPPEGYVVVKNVGLTLRKLIGS
VDDLLPSLPSSSRTEIEGTQKLLNKDLAELINKMRLAQNAVTSLSSEECKRQMLTASHTLAMDAK
NLLDAVDQAKVLANLAHPPAE

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

142.3

Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PTK2B

Entrez GeneID	2185
GeneBank Accession#	BC036651.2
Protein Accession#	AAH36651.1
Gene Name	PTK2B
Gene Alias	CADTK, CAKB, FADK2, FAK2, FRNK, PKB, PTK, PYK2, RAFTK
Gene Description	PTK2B protein tyrosine kinase 2 beta
Omim ID	601212
Gene Ontology	Hyperlink

Gene 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]

Other Designations

CAK beta|OTTHUMP00000128275|OTTHUMP00000162913|calcium-dependent tyrosine kinase|cell adhesion kinase beta|focal adhesion kinase 2|proline-rich tyrosine kinase 2|protein kinase B|protein tyrosine kinase 2 beta|related adhesion focal tyrosine kinase

Pathway

- [Calcium signaling pathway](#)
- [Chemokine signaling pathway](#)
- [GnRH signaling pathway](#)
- [Leukocyte transendothelial migration](#)
- [Natural killer cell mediated cytotoxicity](#)

Disease

- [Cardiovascular Diseases](#)
- [Cell Transformation](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Hypertension](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)

- [Melanoma](#)
- [Skin Neoplasms](#)
- [Tobacco Use Disorder](#)