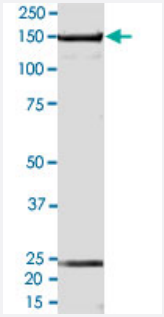
Bioactive Full-Length

PTK2B (Human) Recombinant Protein

Catalog # P4767 Size 100 ug

Applications



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human PTK2B (NM_004103.3, 1 a.a. - 1009 a.a.) full-length recombinant protein with GST-His tag expressed in Sf9 cells.
Host	insect
Theoretical MW (kDa)	145.724
Form	Liquid
Preparation Method	Insect cell (Sf9) expression system
Purification	One-step affinity purification using GSH agarose
Concentration	0.076 ug/uL

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Activity	6 pmol/ug x min
Quality Control Testing	2 ug/lane SDS-PAGE Stained with Coomassie Blue
Storage Buffer	In 50 mM Hepes-NaOH, 100 mM NaCl, pH 7.5. (5 mM DTT, 4 mM reduced glutathione, 20% glycerol)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — PTK2B

Entrez GeneID	2185
Protein Accession#	NM_004103.3
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 reg ulation 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 act ivity. The encoded protein undergoes rapid tyrosine phosphorylation and activation in response to increases in the intracellular calcium concentration, nicotinic acetylcholine receptor activation, me mbrane 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 l acks significant sequence similarity to kinases from other subfamilies. Four transcript variants en coding two different isoforms have been found for this gene. [provided by RefSeq

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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

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