Recombinant Human PTK2B, GST-tagged

Cat. No. PTK2B-743H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTK2B with GST tag is expressed in Baculovirus.
Species	Human
Source	Insect Cells
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.
Purity	74 %, The purity was assessed by SDS-PAGE/CBB staining.
Storage And Handling	Store at -80oC. Avoid repeating freeze-thaws.

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GENE INFORMATION

Gene Name	PTK2B PTK2B protein tyrosine kinase 2 beta [Homo sapiens]
Synonyms	PTK2B; PTK2B protein tyrosine kinase 2 beta; PTK2B protein tyrosine kinase 2 beta; CAK beta; 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; EC 2.7.10.2
Gene ID	2185
mRNA Refseq	NM_004103
Protein Refseq	NP_004094
MIM	601212
UniProt ID	Q14289
Chromosome Location	8p21.1
Pathway	Calcium signaling pathway; Chemokine signaling pathway; GnRH signaling pathway; Leukocyte transendothelial migration; Natural killer cell mediated cytotoxicity
Function	3-phosphoinositide-dependent protein kinase binding; ATP binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein complex binding; signal transducer activity; transferase activity

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