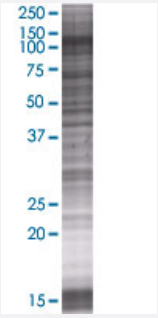
PTK2B 293T Cell Transient Overexpression Lysate(Denatured)

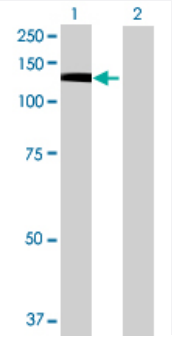
Catalog # H00002185-T01 Size 100 uL

Applications



SDS-PAGE Gel

PTK2B transfected lysate.



Western Blot

Lane 1: PTK2B transfected lysate (111.1 KDa)
Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-PTK2B full-length
Host	Human
Theoretical MW (kDa)	111.1
Quality Control Testing	Transient overexpression cell lysate was tested with Anti-PTK2B antibody (H00002185-B01) by Western Blots. SDS-PAGE Gel PTK2B transfected lysate. Western Blot Lane 1: PTK2B transfected lysate (111.1 KDa) Lane 2: Non-transfected lysate.

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Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

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

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- 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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