

## Recombinant Human Protein Kinase, X-Linked, GST-tagged

Cat. No. PRKX-1090H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human PRKX was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	PRKX is a serine/threonine protein kinase that is closely related to the catalytic subunit of the cAMP-dependent protein kinase. PRKX regulates epithelial morphogenesis during mammalian kidney development and PRKX expression markedly activates migration of cultured renal epithelial cells in the presence of cAMP. Aberrant adult kidney expression of PRKX is found in autosomal dominant polycystic kidney disease. PRKX is involved in macrophage and granulocyte maturation. Abnormal recombination between PRKX and a related pseudogene on chromosome Y is a frequent cause of sex reversal disorder in XX males and XY females.
<b>Applications</b>	Kinase Assay; Western Blot
<b>Molecular Weight</b>	73 kDa
<b>Expression System</b>	Sf9 insect cells using baculovirus
<b>Form</b>	Recombinant protein stored in 50 mM Tris-HCL, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM PMSF, 0.25 mM DTT, 25% glycerol, 0.1 mM EDTA.

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<b>Specific Activity</b>	150 nmol/min/mg
<b>Purity</b>	> 90 %
<b>Concentration</b>	0.1 ug/ul
<b>Storage</b>	Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
<b>Pathways</b>	Amoebiasis; Apoptosis; Bile secretion; Calcium signaling pathway; Chemokine signaling pathway; Dilated cardiomyopathy; Dilated cardiomyopathy; GABAergic synapse; Gap junction; Gastric acid secretion; Glutamatergic synapse; HTLV-I infection; Hedgehog signaling pathway; Insulin signaling pathway; Long-term potentiation; MAPK signaling pathway

## GENE INFORMATION

<b>Gene Name</b>	PRKX protein kinase, X-linked [ Homo sapiens ]
<b>Official Symbol</b>	PRKX
<b>Synonyms</b>	PRKX; protein kinase, X-linked; PKX1; serine/threonine-protein kinase PRKX; OTTHUMP00000022861; protein kinase PKX1; NP_005035.1; EC 2.7.11.1
<b>Gene ID</b>	5613
<b>mRNA Refseq</b>	NM_005044
<b>Protein Refseq</b>	NP_005035

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<b>MIM</b>	300083
<b>UniProt ID</b>	P51817
<b>Chromosome Location</b>	Xp22.3
<b>Function</b>	ATP binding; cAMP-dependent protein kinase activity; nucleotide binding; protein binding; protein serine/threonine kinase activity

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