

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

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

SPECIFICATION

Product Overview	Recombinant full-length human PRKX was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	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.
Applications	Kinase Assay; Western Blot
Molecular Weight	73 kDa
Expression System	Sf9 insect cells using baculovirus
Form	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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Specific Activity	150 nmol/min/mg
Purity	> 90 %
Concentration	0.1 ug/ul
Storage	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.
Pathways	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

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

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

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