PFTK1 (CDK14) Protein
Full length recombinant protein expressed in Sf9 cells

Catalog # P15-30G
Lot # J631-2

Product Description
Recombinant full-length human PFTK1 (CDK14) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_012395.

Gene Aliases
CDK14; PFTAIRE1

Formulation
Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.

Storage and Stability
Store product at –70°C. 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.

Scientific Background
PFTK1, also known as PFTAIRE protein kinase 1, is a member of the CDC2-related protein kinase family which is expressed primarily in the postnatal and adult nervous system (1). PFTK1 is highly expressed in brain, pancreas, kidney, heart, testis, and ovary. PFTK1 interacts with 14-3-3-beta, 14-3-3-epsilon, 14-3-3-eta and 14-3-3-tau. Using PFTK1 mutant constructs and in vitro and in vivo binding studies, it was shown that PFTK1 amino acid residue ser119 is required for its interaction with all four 14-3-3 isoforms. (2). Significant upregulation of PFTK1 expression is observed in oesophageal squamous cell carcinoma (ESCC). PFTK1 is not only useful as a prognostic marker in ESCC, but also as a predictor of the response to chemotherapy.

References

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