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Datasheet for 009-001-S90S

PFTK1 (CDK14) protein-GST fusion

Overview

Description:	PFTK1 (CDK14) recombinant protein-GST fusion protein - 009-001-S90S
Item No.:	009-001-S90S
Size:	20 µg
Origin:	Human
Expressed in:	Sf9 cells

Product Details

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 esophageal 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. PFTK1 Protein is ideal for investigators involved in Signaling Proteins, Cellular Proteins, Cancer, Cell Cycle, and Ser/Thr Kinases research.
Synonyms:	CDK14, PFTAIRE1, Cyclin-dependent kinase 14
Species of Origin:	Human
Expressed in:	Sf9 cells
Type:	Recombinant Protein

Target Details

Gene Name:	CDK14
Purity/Specificity:	Recombinant full-length human PFTK1 (CDK14) was expressed by baculovirus in Sf9 insect cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >95% by densitometry.
Relevant Links:	• NCBI - NM_012395

Application Details

Application Note:	PFTK1 Protein is stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. PFTK1 Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~72kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.1 µg/µL
Buffer:	See application note.

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	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.
Expiration:	Expiration date is one (1) year from date of receipt.

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