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Datasheet for ABIN6699571 **PPM1F Protein (GST tag)**

Overview

Quantity:	20 µg
Target:	PPM1F
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PPM1F protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	CaMKPase recombinant protein-GST fusion protein
Purification:	Recombinant full-length human CaMKPase was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >80% by densitometry.
Purity:	>80%

Target Details

Target:	PPM1F
Alternative Name:	PPM1F (PPM1F Products)
Background:	Synonyms: PPM1F, FEM-2, hFEM-2, KIAA0015, POPX2, Protein phosphatase 1F, Ca(2+)/calmodulin-dependent protein kinase phosphatase, CaM-kinase phosphatase, CaMKPase, Partner of PIX 2, Protein fem-2 homolog, hFem-2

Target Details

Background: CaMKPase is a member of the PP2C family of Ser/Thr protein phosphatases that dephosphorylate and regulate the multifunctional Ca²⁺/calmodulin-dependent protein kinases (CaMKs) (1). The multifunctional CaMKs mediate cellular responses induced by increases in second messenger Ca²⁺ and have been implicated in the control of synaptic transmission, gene transcription, cell growth and contraction of cardiac and smooth muscles (2).

Overexpression of CaMKPase has been shown to mediate caspase-dependent apoptosis. CaMKPase can also interact with the Rho guanine nucleotide exchange factors (PIX) thereby blocking the effects of p21-activated kinase 1 (PAK1). CaMKPase Protein is ideal to investigators involved in Signaling Proteins, Cellular Proteins, Cardiovascular Disease, ERK/MAPK Pathway, Neurobiology, Phosphatases, and PKA/PKC Pathway research.

NCBI Accession: [NM_014634](#)

Pathways: [Positive Regulation of Endopeptidase Activity](#)

Application Details

Application Notes: Western_Blot_Dilution: User Optimized
Application_Note: CaMKPase Protein is suitable for use in Western Blot. Expect a band approximately ~ 74 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.2 µg/µL

Buffer: CaMKPase Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.

Storage: -80 °C

Storage Comment: 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.

Expiry Date: 12 months