

Datasheet for 009-001-R56S**CaMKPase protein-GST fusion****Overview**

Description:	CaMKPase recombinant protein-GST fusion protein - 009-001-R56S
Item No.:	009-001-R56S
Size:	20 µg
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	CaMKPase is a member of the PP2C family of Ser/Thr protein phosphatases that dephosphorylate and regulate the multifunctional Ca ²⁺ /calmodulin-dependent protein kinases (CaMKs) (1). The multifunctional CaMKs mediate cellular responses induced by increases in second messenger Ca ²⁺ 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.
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
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	PPM1F
Purity/Specificity:	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.

Relevant Links: • [NCBI - NM_014634](#)

Application Details

Application Note: CaMKPase Protein is stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. CaMKPase Protein is suitable for use in Western Blot. Expect a band approximately ~ 74kDa 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: 0.2 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.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.

