

**Datasheet for 009-001-T10S****PTK9 protein-GST fusion****Overview**

<b>Description:</b>	PTK9 recombinant protein-GST fusion protein - 009-001-T10S
<b>Item No.:</b>	009-001-T10S
<b>Size:</b>	20 µg
<b>Origin:</b>	Human
<b>Expressed in:</b>	Sf9 cells

**Product Details**

<b>Background:</b>	PTK9 is an actin monomer-binding protein conserved from yeast to mammals which has been localized to cortical G-actin-rich structures that may be regulated by the small GTPase RAC1. PTK9 has tyrosine kinase activity similar to that of recombinant FGFR2, with optimal activity over pH 6.5 to 7.4 and a preference for manganese over magnesium as a divalent cofactor (1). PTK9 plays a central role in regulation of actin dynamics and cell motility in lymphoma cell homeostasis in vivo and represent as a bona fide lymphoma drug target (2). PTK9 Protein is ideal for investigators involved in Signaling Proteins, Cellular Proteins, Cancer, ERK/MAPK Pathway, Inflammation, Invasion/Metastasis, and Neurobiology research.
<b>Synonyms:</b>	Twinfilin 1, TWF1, A6, Twinfilin-1, Protein A6, Protein tyrosine kinase 9, TWF1, PTK9
<b>Species of Origin:</b>	Human
<b>Expressed in:</b>	Sf9 cells
<b>Type:</b>	Recombinant Protein

**Target Details**

<b>Gene Name:</b>	TWF1
<b>Purity/Specificity:</b>	Recombinant human PTK9 (2-end) 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.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">NCBI - NM_002822</a></li></ul>

## Application Details

<b>Application Note:</b>	PTEK9 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. PTK9 Protein is suitable for use in Western Blot. Expect a band approximately ~64kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>WB:</b>	User Optimized

## Formulation

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

## Shipping & Handling

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

## Disclaimer

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