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Datasheet for 009-001-U16S

TP53RK protein-GST fusion

Overview

Description:	TP53RK recombinant protein-GST fusion protein - 009-001-U16S
Item No.:	009-001-U16S
Size:	20 µg
Origin:	Human
Expressed in:	Sf9 cells

Product Details

Background:	TP53RK or TP53 regulating kinase and also called PRPK (p53-related protein kinase) is the human homologue of yeast Bud32. TP53RK belongs to a small subfamily of atypical protein kinases. TP53RK is expressed in interleukin-2-activated cytotoxic T-cells, epithelial tumor cell lines, and the testes and lower expression of TP53RK is found in heart, kidney, and spleen (1). PRPK interacts with CGI-121 and co-precipitation of p53 with PRPK is inhibited by adding recombinant CGI-121 in vitro. CGI-121 may act as an inhibitor of the PRPK-p53 interaction (2). TP53RK is activated by another kinase, Akt/PKB, which phosphorylates TP53RK at Ser250. TP53RK Protein is ideal for investigators involved in Signaling Proteins, Ubiquitin Proteins, Apoptosis/Autophagy, Cancer, Cardiovascular Disease, Cell Cycle, Cellular Stress, Inflammation, JNK/SAPK Pathway, Metabolic Disorder, Neurobiology, and p38 Pathway research.
Synonyms:	BUD32, C20orf64, dJ101A2, Nori-2, Nori-2p, TP53-regulating kinase, Atypical serine/threonine protein kinase TP53RK, EKC/KEOPS complex subunit TP53RK, Nori-2, p53-related protein kinase, TP53RK, C20orf64, PRPK
Species of Origin:	Human
Expressed in:	Sf9 cells
Type:	Recombinant Protein

Target Details

Gene Name:	TP53RK
Purity/Specificity:	Recombinant full-length human TP53RK was expressed by baculovirus in Sf9 insect cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >80% by densitometry.

Relevant Links:	• NCBI - NM_033550

Application Details

Application Note:	TP53RK 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. TP53RK Protein is suitable for use in Western Blot. Expect a band approximately ~55kDa 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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