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Datasheet for 009-001-R29S

14-3-3 theta protein-GST fusion

Overview

Description:	14-3-3 theta recombinant protein-GST fusion protein - 009-001-R29S
Item No.:	009-001-R29S
Size:	20 µg
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	14-3-3θ (also known as tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide) is a member of the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. Through interaction with ASK1, c-jun NH-terminal kinase, and p38 mitogen-activated protein kinase (MAPK), 14-3-3θ plays an important role in controlling apoptosis (1). Induced expression of 14-3-3θ protein has been reported in patients with amyotrophic lateral sclerosis. Additionally, 14-3-3θ has been observed to mediate nucleocytoplasmic shuttling of the N protein (coronavirus nucleocapsid protein) which causes severe acute respiratory syndrome (2). 14-3-3θ Protein is ideal for investigators involved in Cell Stress& Chaperone Proteins, AKT/PKB Pathway, Cancer, Cell Cycle, Cellular Stress, ERK/MAPK Pathway, Neurobiology, PKA/PKC Pathway, and WNT Signaling research.
Synonyms:	14-3-3 theta, YWHAQ, 1C5, HS1, 14-3-3, 14-3-3 protein tau
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	YWHAQ
Purity/Specificity:	Recombinant full-length human 14-3-3θ was expressed in E. coli cells using an N-terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >95% by densitometry.
Relevant Links:	• NCBI - NM_006142

Application Details

Application Note:	14-3-3θ 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. 14-3-3θ Protein is suitable for use in Western Blot. Expect a band approximately ~ 56kDa 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.

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