Datasheet for ABIN6700571

14-3-3 sigma/SFN Protein

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Overview

Quantity:	20 µg
Target:	14-3-3 sigma/SFN (SFN)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	Western Blotting (WB)

Product Details

Purpose:	14-3-3 sigma recombinant protein
Purification:	Recombinant full-length human 14-3-3σ was expressed in E. coli cells. The purity was determined to be >95% by densitometry.
Purity:	>95%

Target Details

Target:	14-3-3 sigma/SFN (SFN)
Alternative Name:	YWHAS (SFN Products)
Background:	Synonyms: 14-3-3 sigma, SFN, stratifin, YWHAS Background: 14-3-3σ or stratifin is a protein that is strongly induced by gamma irradiation and other DNA-damaging agents (1). The induction of 14-3-3σ is mediated by a p53 responsive element. Exogenous introduction of 14-3-3σ into cycling cells results in a G2 cell cycle arrest (2). Knockout of 14-3-3σ in cells showed that the cells are unable to maintain cell cycle arrest

Target Details

	after DNA damage. The 14-3-3σ -/- cells die as they enter mitosis. This process is associated with a failure of the 14-3-3σ-deficient cells to sequester the proteins that initiate mitosis and prevent them from entering the nucleus. Thus, 14-3-3σ plays an important role in maintaining the G2 checkpoint in cells and preventing mitotic death. 14-3-3σ 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.
NCBI Accession:	NM_006826
Pathways:	p53 Signaling, Myometrial Relaxation and Contraction

Application Details

Application Notes:	Western_Blot_Dilution: User Optimized Application_Note: 14-3-3σ Protein is suitable for use in Western Blot. Expect a band approximately ~ 29 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:	14-3-3σ Protein is stored in 50 mM Tris-HCl, pH 7.5, 50 mM NaCl, 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