Datasheet for ABIN6700782

14-3-3 theta Protein (YWHAQ) (GST tag)

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Overview

Quantity:	20 µg
Target:	14-3-3 theta (YWHAQ)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This 14-3-3 theta protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	14-3-3 theta recombinant protein-GST fusion protein
Purification:	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.
Purity:	>95%

Target Details

Target:	14-3-3 theta (YWHAQ)
Alternative Name:	YWHAQ (YWHAQ Products)
Background:	Synonyms: 14-3-3 theta, YWHAQ, 1C5, HS1, 14-3-3, 14-3-3 protein tau 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

Target Details

	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.
NCBI Accession:	NM_006142
Pathways:	Apoptosis, Myometrial Relaxation and Contraction

Application Details

Application Notes:	Western_Blot_Dilution: User Optimized Application_Note: 14-3-3θ Protein is suitable for use in Western Blot. Expect a band approximately ~ 56 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:	14-3-3θ Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 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