

## Datasheet for ABIN6700774 YWHAB Protein (GST tag)



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### Overview

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

### Product Details

Purpose:	14-3-3 alpha/beta recombinant protein-GST fusion protein
Purification:	Recombinant full-length human 14-3-3α/β was expressed in E.coli cells using an N-terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >90% by densitometry.
Purity:	>90%

### Target Details

Target:	YWHAB
Alternative Name:	YWHAB ( <a href="#">YWHAB Products</a> )
Background:	Synonyms: 14-3-3 alpha/beta, YWHAB, HS1, GW128, KCIP-1, Protein 1054, Protein kinase C inhibitor protein 1, KCIP-1  Background: 14-3-3α/β is a member of the highly conserved 14-3-3 family of proteins which

## Target Details

mediate signal transduction by binding to phosphoserine-containing proteins (1). 14-3-3 $\alpha/\beta$  protein has been shown to interact with RAF1 and CDC25 phosphatases, suggesting that it may play a role in linking mitogenic signaling and the cell cycle machinery. 14-3-3 $\beta$  interacts with the TSC1-TSC2 dimer (2). The interaction required phosphorylation of TSC2 at Ser1210. Binding of 14-3-3 $\beta$  to TSC2 did not alter the interaction between TSC1 and TSC2, but it reduced the ability of the complex to inhibit phosphorylation of ribosomal protein S6 kinase impairing the ability of the complex to inhibit cell growth. 14-3-3 alpha/beta Protein is ideal for investigators involved in Cell Stress & Chaperone Proteins, Cell Signaling, Cancer research, Cell Cycle, Cellular Stress, Neurobiology, and WNT Signaling research.

NCBI Accession:	<a href="#">NM_003404</a>
Pathways:	<a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Myometrial Relaxation and Contraction</a> , <a href="#">Maintenance of Protein Location</a>

## Application Details

Application Notes:	Western_Blot_Dilution: User Optimized  Application_Note: 14-3-3 alpha/beta Protein is suitable for use in Western Blot. Expect a band approximately ~54 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 $\mu\text{g}/\mu\text{L}$
Buffer:	14-3-3 alpha/beta Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 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