Datasheet for ABIN7194064

YWHAE Protein

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Overview

Quantity:	100 µg
Target:	YWHAE
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human 14-3-3 epsilon/YWHAE Protein
Sequence:	Met 1-Gln 255
Characteristics:	A DNA sequence encoding the human YWHAE (NP_006752.1) (Met 1-Gln 255) was expressed, with two additional amino acids (Gly & Pro) at the N-terminus.
Purity:	> 96 % as determined by reducing SDS-PAGE.

Target Details

Target:	YWHAE
Alternative Name:	14-3-3 epsilon/YWHAE (YWHAE Products)
Background:	Background: YWHAE, also known as 14-3-3 epsilon, mediate signal transduction by binding to phosphoserine-containing proteins. 14-3-3 epsilon / YWHAE is a member of the 14-3-3 proteins family. 14-3-3 proteins are a group of highly conserved proteins that are involved in many vital cellular processes such as metabolism, protein trafficking, signal transduction, apoptosis and cell cycle regulation. 14-3-3 proteins are mainly localized in the synapses and neuronal

Target Details

	cytoplasm, and seven isoforms have been identified in mammals. This family of proteins was initially identified as adaptor proteins which bind to phosphoserine-containing motifs. Binding motifs and potential functions of 14-3-3 proteins are now recognized to have a wide range of functional relevance. 14-3-3 epsilon / YWHAE is found in both plants and mammals, and this protein is 100 % identical to the mouse ortholog. YWHAE interacts with CDC25 phosphatases, RAF1 and IRS1 proteins, suggesting its role in diverse biochemical activities related to signal transduction, such as cell division and regulation of insulin sensitivity. It has also been implicated in the pathogenesis of small cell lung cancer. 14-3-3 epsilon / YWHAE is implicated in the regulation of a large spectrum of both general and specialized signaling pathways. 14-3-3 epsilon / YWHAE Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif. This Binding generally results in the modulation of the activity of the binding partner. Synonym: 14-3-3E,HEL2,KCIP-1,MDCR,MDS
Molecular Weight:	29.4 kDa
NCBI Accession:	NP_006752
Pathways:	Neurotrophin Signaling Pathway, Myometrial Relaxation and Contraction, M Phase

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris, 150 mM NaCl, 0.25 mM DTT, 25 % glycerol, 0.5 mM GSH, pH 7.5
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.