Recombinant Human Tyrosine 3-Monooxygenase/Tryptophan 5-Monooxygenase Activation Protein, Beta Polypeptide, GST-tagged

Cat. No. YWHAB-4894H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human YWHAB was expressed in E. coli cells using a N-terminal GST tag.
Species	Human
Source	E.coli
Description	YWHAB is a member of the highly conserved 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. YWHAB 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. YWHAB interacts with the TSC1-TSC2 dimer. The interaction required phosphorylation of TSC2 at Ser1210. Binding of YWHAB 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.
Applications	Western Blot
Molecular Weight	54kDa
Expression System	E.coli
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT,

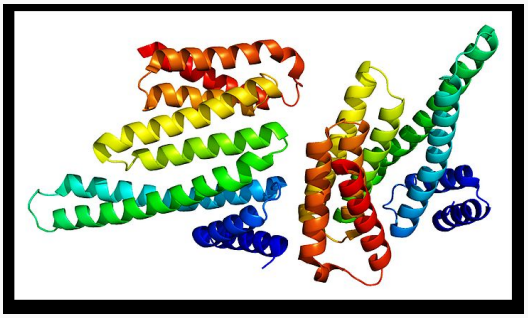
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	0.1mM PMSF, 25% glycerol.
Purity	>90 %
Concentration	0.2ug/ul
Sequences	Full-length
Storage	Store product at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Cell Cycle; Apoptosis; Signaling by EGFR; Signaling by Insulin receptor; Signalling by NGF; ARMS-mediated activation; Activation of BAD and translocation to mitochondria; Activation of BH3-only proteins; Adaptive Immunity Signaling; Alpha6-Beta4 Integrin Signaling Pathway; Axon guidance; Calcium Regulation in the Cardiac Cell; Cell cycle; Class I PI3K signaling events mediated by Akt; Cytokine Signaling in Immune system

GENE INFORMATION

Gene Name	YWHAB tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide [Homo sapiens]
Official Symbol	YWHAB
Synonyms	YWHAB; tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide; HS1; GW128; KCIP-1; Protein 1054; OTTHUMP00000031075; OTTHUMP00000031076; 14-3-3 protein beta/alpha; Protein kinase C inhibitor protein 1; protein kinase C inhibitor protein-1; brain protein 14-3-3, beta isoform; YWHAB tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta

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	polypeptide; tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, alpha polypeptide
Gene ID	7529
mRNA Refseq	NM_003404
Protein Refseq	NP_003395
MIM	601289
UniProt ID	P31946
Chromosome Location	20q13.1
Function	enzyme binding; protein domain specific binding; histone deacetylase binding; monooxygenase activity; phosphoprotein binding; protein C-terminus binding; protein binding; transcription corepressor activity
PDBrendering based on 2bq0.	

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