

Recombinant Human YWHAB, GST-tagged

Cat. No. YWHAB-162H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human YWHAB /14-3-3 Beta Protein, N-GST Tag (rh YWHAB / KCIP-1, GST Tag) Met 1 - Asn 246 (Accession # NP_647539) was produced in E.coli cells.
Species	Human
Source	E.coli
ProteinLength	1-246 a.a.
Description	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide (YWHAB) is also known as 14-3-3 protein beta, GW128, HS1. YWHAB belongs to the 14-3-3 family. YWHAB binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif. Binding generally results in the modulation of the activity of the binding partner. YWHAB is negative regulator of osteogenesis. YWHAB blocks the nuclear translocation of the phosphorylated form (by AKT1) of SRPK2 and antagonizes its stimulatory effect on cyclin D1 expression resulting in blockage of neuronal apoptosis elicited by SRPK2.
Form	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH 7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.
Molecular Mass	rh YWHAB / KCIP-1, GST Tag is fused with a GST tag at the N-terminus, and has a calculated MW of 55 kDa. The predicted N-terminus is Met 1. DTT-reduced Protein migrates as 53 kDa in SDS-PAGE.

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Endotoxin	Less than 1.0 EU per µg of the rh YWHAB / KCIP-1, GST Tag by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Avoid repeated freeze-thaw cycles.No activity loss was observed after storage at:In lyophilized state for 1 year (4oC); After reconstitution under sterile conditions for 3 months (-70oC).
Reconstitution	See Certificate of Analysis for reconstitution instructions and specific concentrations.

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; tyrosine 3 monooxygenase/tryptophan 5 monooxygenase activation protein, alpha polypeptide , YWHAA; 14-3-3 protein beta/alpha; 14 3 3 alpha; 14 3 3 beta; 14-3-3 alpha; protein 1054; brain protein 14-3-3, beta isoform; protein kinase C inhibitor protein 1; protein kinase C inhibitor protein-1; tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, alpha polypeptide; HS1; GW128; YWHAA; KCIP-1;
Gene ID	7529
mRNA Refseq	NM_003404
Protein Refseq	NP_003395

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MIM	601289
UniProt ID	P31946
Chromosome Location	20q13.1
Pathway	ARMS-mediated activation, organism-specific biosystem; Activation of BAD and translocation to mitochondria, organism-specific biosystem; Activation of BH3-only proteins, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Apoptosis, organism-specific biosystem; Axon guidance, organism-specific biosystem;
Function	enzyme binding; histone deacetylase binding; monooxygenase activity; phosphoprotein binding; phosphoserine binding; protein C-terminus binding; protein binding; protein domain specific binding; protein domain specific binding; transcription corepressor activity;

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