

Recombinant Human Tyrosine 3-monooxygenase/ Tryptophan 5-monooxygenase Activation Protein, Beta Polypeptide

Cat. No. YWHAB-103H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human 14-3-3 beta was expressed in E.coli and purified by using conventional chromatography techniques (246 aa, 28 kDa).
Species	Human
Source	E.coli
Description	The 14-3-3 family plays a key regulatory role in signal transduction, checkpoint control, apoptotic and nutrient-sensing pathways. 14-3-3 proteins are highly conserved and ubiquitously expressed. There are at least seven isoforms, β , γ , ϵ , σ , ζ , τ and η that have been identified in mammals. The 14-3-3 beta, a subtype of the 14-3-3 proteins, was found in B Cells, brain and liver etc. This 14-3-3 beta 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.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM EDTA, 50 mM NaCl.
Molecular Weight	28 kDa (246 aa).
Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequence	MTMDKSELVQ KAKLAEQAER YDDMAAAMKA VTEQGHELSN EERNLLSVAY

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KNVVGARRSS WRVISSIEQK TERNEKKQQM GKEYREKIEA ELQDICNDVL
ELLDKYLIPN ATQPESKVFY LKMKG DYFRY LSEVASGDNK QTTVSNSQQA
YQEA FEISKK EMQPTHPIRL GLALNFSVFY YEILNSPEKA CSLAKTAFDE
AIAELDTLNE ESYKDSTLIM QLLRDNLTLW TSENQGDEGD AGE GEN

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

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 polypeptide.

Gene ID

7529

mRNA Refseq

NM_003404.3

Protein Refseq

NP_003395.1

MIM

601289

UniProt ID

P31946

**Chromosome
Location**

20q13.1

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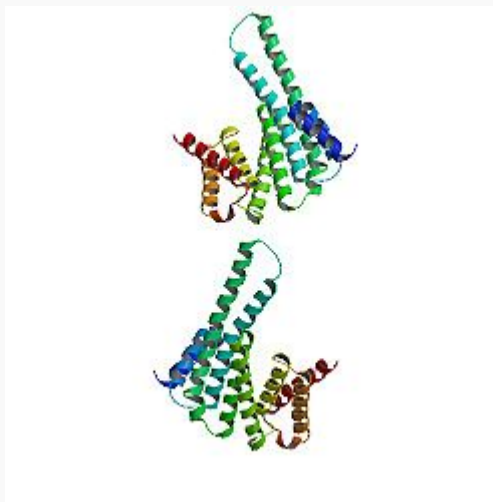
Pathway

Cell Cycle; Apoptosis; Signaling by EGFR; Signaling by Insulin receptor; Signalling by NGF.

Function

enzyme binding; protein domain specific binding.

**PDBrendering based
on 2bq0. Available
structures: 2bq0, 2c23**



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