

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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**

