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# Recombinant human 14-3-3 beta/alpha protein

Catalog Number: ATGP3590

## **PRODUCT INFORMATION**

## **Expression system**

E.coli

#### **Domain**

1-246aa

#### **UniProt No.**

P31946

#### **NCBI Accession No.**

NP 003395

### **Alternative Names**

YWHAB, YWHAA, Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein beta/alpha, Protein 1054, Protein kinase C inhibitor protein 1, KCIP-1, 14-3-3 protein beta/alpha N-terminally processed, GW128, HEL-S-1, HS1, KCIP-1

## **PRODUCT SPECIFICATION**

## **Molecular Weight**

30.6 kDa (270aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by absorbance at 280nm)

### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### **Purity**

> 90% by SDS-PAGE

# Tag

His-Tag

# **Application**

SDS-PAGE

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# **BACKGROUND**

# **Description**

YWHAB, also known as 14-3-3 protein beta/alpha, is 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, beta, gamma, epsilon, sigma, zeta, tau and eta that have been identified in mammals. The 14-3-3 beta, a subtype of the 14-3-3 proteins, was found in B Cells,



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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. Recombinant human YWHAB, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

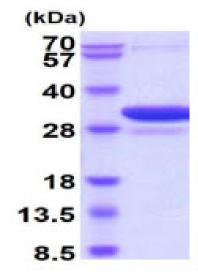
MGSSHHHHHH SSGLVPRGSH MGSHMTMDKS ELVQKAKLAE QAERYDDMAA AMKAVTEQGH ELSNEERNLL SVAYKNVVGA RRSSWRVISS IEQKTERNEK KQQMGKEYRE KIEAELQDIC NDVLELLDKY LIPNATQPES KVFYLKMKGD YFRYLSEVAS GDNKQTTVSN SQQAYQEAFE ISKKEMQPTH PIRLGLALNF SVFYYEILNS PEKACSLAKT AFDEAIAELD TLNEESYKDS TLIMQLLRDN LTLWTSENQG DEGDAGEGEN

### **General References**

Rodriguez LG., et al. (2005) J Cell Physiol. 202(1):285-94. Mils V., et al. (2000) Oncogene. 19(10):1257-65.

# **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)