

# Product information

## YWHAB, 1-246aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP3590

**Full name:** 14-3-3 protein beta/alpha

**NCBI Accession No.:** NP\_003395

**Synonyms:** GW128, HEL-S-1, HS1, KCIP-1, YWHAA

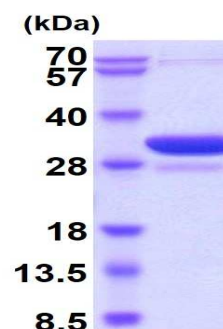
**Description:** YWHAB, also known as 14-3-3 protein beta/alpha, is 14-3-3 family plays a key regulatory role in signal transduction, checkpoint control, apoptotic and nutrient-sensing pathways. 14-3-3 proteins are highly conserved and ubiquitously expressed. There are at least seven isoforms,  $\beta$ ,  $\gamma$ ,  $\epsilon$ ,  $\sigma$ ,  $\zeta$ ,  $\tau$  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, 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.

**Form:** Liquid. In Phosphate Buffered Saline (pH7.4) containing 10% glycerol

**Molecular Weight:** 30.6 kDa (270aa) confirmed by MALDI-TOF

**Purity:** > 90% by SDS-PAGE

**Concentration:** 1 mg/ml (determined by Absorbance at 280nm)



15% SDS-PAGE (3ug)

### Sequences of amino acids:

MGSSHHHHH SGLVPRGSH MGSMTMDKS ELVQKAKLAE QAERYDDMAA AMKAVTEQGH ELSNEERNLL SVAYKNVGA RRSSWRVISS  
IEQKTERNEK KQMGKEYRE KIEAELQDLC NDVLELLQKY LIPNATQPES KVFYLMKMGD YFRYLSEVAS GDNKQTTVSN SQQAYQEAFF  
ISKKEQMPH PIRLGLALNF SVFYIEILNS 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.

**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.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



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