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## **Recombinant human CACYBP protein**

Catalog Number: ATGP0566

#### PRODUCT INFORMATION

#### **Expression system**

E.coli

#### **Domain**

1-185aa

#### **UniProt No.**

O9HB71

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

NP 001007215

#### **Alternative Names**

Clcyclin-binding protein, GIG5, PNAS-107, RP1-102G20.6, S100A6BP, SIP, Clcyclin-binding protein CACYBP, Calcyclin binding protein, GIG 5, Growth inhibiting gene 5, Growth inhibiting gene 5 protein, hCacyBP, MGC87971, PNAS 107, PNAS107, RP1 102G20.6, S100A6 binding protein.

#### **PRODUCT SPECIFICATION**

#### **Molecular Weight**

23.4 kDa (205aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.1M NaCl.

## **Purity**

> 85% 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**

CACYBP is primarily a nuclear protein that contains one CS domain and one SGS domain. It is believed to be involved in calcium-dependent ubiquitination and subsequent proteosomal degradation of target proteins. It most likely serves as a molecular bridge in ubiquitin E3 complexes. It also participates in the ubiquitin-mediated degradation of beta-catenin. CACYBP is thought to be a potential inhibitor of cell growth and invasion in the



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gastric cancer cell through its effects on beta-catenin protein expression and transcriptional activation of TCF/LEF. Recombinant human CACYBP protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

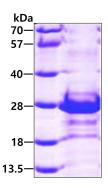
<MGSSHHHHHH SSGLVPRGSH> MQQKSQKKAE LLDNEKPAAV VAPITTGYTV KISNYGWDQS DKFVKIYITL TGVHQVPTEN VQVHFTERSF DLLVKNLNGK SYSMIVNNLL KPISVEGSSK KVKTDTVLIL CRKKVENTRW DYLTQVEKEC KEKEKPSYDT ETDPSEGLMN VLKKIYEDGD DDMKRTINKA WVESREKQAK GDTEF

#### **General References**

Matsuzawa SI., et al. (2001) Mol Cell. 7(5):915-26. Filipek A., et al. (2002) J Biol Chem. 277(23):21103-9.

## **DATA**

#### **SDS-PAGE**



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

