

# Recombinant human CIB1 protein

Catalog Number: CIB0801

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-191aa

### UniProt No.

Q99828

### NCBI Accession No.

NP\_006375

### Alternative Names

Calcium and integrin binding 1, CIB, KIP (Kinase interacting protein), SIP2-28(SNK interacting protein2-28), CALMYRIN, CIB1, Calcium and integrin binding 1 Calcium and integrin binding 1 (calmyrin), Calcium and integrin binding protein 1, CIB, DNA PKcs interacting protein, Human Snk interacting protein 2 to 28 mRNA complete cds, Kinase interacting protein, PRKDCIP, SIP2 28, SNK interacting protein 2 to 28.

## PRODUCT SPECIFICATION

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### Molecular Weight

23 kDa (211aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT

### Purity

> 95% 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

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### Description

CIB, KIP (Kinase interacting protein), SIP2-28 (SNK interacting protein2-28), CALMYRIN Description: CIB1 (Calcium and integrin binding 1) is regulatory protein with 50% homology to calmodulin and calcineurin B, that encodes a member of the calcium-binding protein family. The specific function of this protein has not yet been determined;

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however this protein is known to interact with DNA-dependent protein kinase and may play a role in kinase-phosphatase regulation of DNA end joining. Also CIB1 is widely expressed and binds to a number of effectors, such as integrin alpha IIb, PAK1, and polo-like kinases, in different tissues. Recombinant human CIB1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGGSGSRLSK ELLAEYQDLT FLTKQEILLA HRRFCELLPQ EQRTVESSLR AQVPFEQILS  
LPELKANPFK ERICRVFSTS PAKDSLSEFED FLDLLSVFSD TATPDIKSHY AFRIFDFDDD GTLNREDLSR LVNCLTGEGE  
DTRLSASEMK QLIDNILEES DIDRDGTINL SEFQHVISRS PDFASSFKIV L

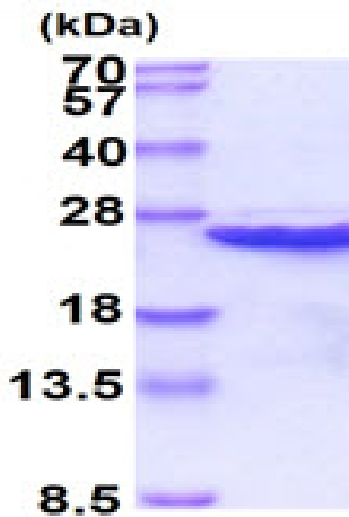
## General References

Yuan W , et al , (2006). Mol Cell Biochem. 26(22): 8507

Yuan , et al , (2006). J Cell Biol. 172(2) :169-75

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)