

# Recombinant human RCN1 protein

Catalog Number: ATGP0672

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

30-331aa

### UniProt No.

Q15293

### NCBI Accession No.

NP\_002892

### Alternative Names

Reticulocalbin-1, PIG20, RCAL, RCN, Reticulocalbin-1, Reticulocalbin 1, Reticulocalbin1

## PRODUCT SPECIFICATION

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### Molecular Weight

40.4 kDa (341aa) confirmed by MALDI-TOF (Real Molecular weight on SDS-PAGE will be shift up)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 100mM NaCl

### Purity

> 80% 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

Reticulocalbin 1 (RCN1) is a calcium-binding protein. It binds calcium and may regulate calcium-dependent activities in the endoplasmic reticulum lumen or post-ER compartment. The protein contains six conserved regions with similarity to a high affinity Ca (+2) -binding motif, the EF-hand. High conservation of amino acid residues outside of these motifs, in comparison to mouse reticulocalbin, is consistent with a possible biochemical function besides that of calcium binding. In human endothelial and prostate cancer cell lines this protein localizes to the plasma membrane. Recombinant human RCN1 protein, fused to His-tag at N-terminus, was

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expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

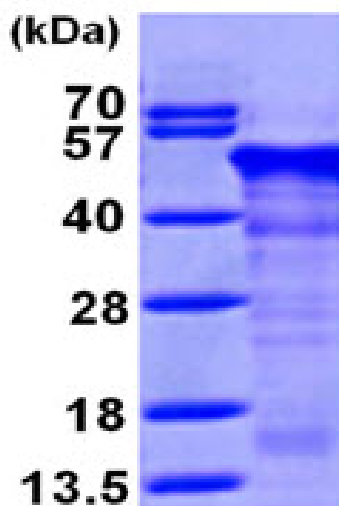
MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSELEK PTVRKERVVR PDSELGERPP EDNQSFYQDH  
EAFLGKEDSK TFDQLTPDES KERLGKIVDR IDNDGDGFVT TEELKTWIKR VQKRYIFDNV AKVWKDYDRD KDDKISWEEY  
KQATYGYLLG NPAEFHDSSD HHTFKKMLPR DERRFKAADL NGDLTATREE FTAFLHPEEF EHMKEIWLLE TLEDIDKNGD  
GFVDQDEYIA DMFSHEENGP EPDWVLSERE QFNEFRDLNK DGKLDKDEIR HWILPQDYDH AQAEARHLVY ESDKNKDEKL  
TKEEILENWN MFVGSQATNY GEDLTKNHDE L

## General References

Tachikui., et al. (1997) M. J. Biochem. 121(1):145-9.  
Gloria K., et al. (2006) Plant Physiology 141:1617-1629

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)