

# Recombinant Human RCN1, His-tagged

**Cat. No.** RCN1-2753H    **Lot. No.** (See product label)

## SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant human RCN1 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW =40.4kDa (341aa) confirmed by MALDI-TOF (Real molecular weight on SDS-PAGE will be shift up).                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>              | 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. |
| <b>Sequences Of Amino Acids</b> | MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSELEK PTVRKERVVR<br>PDSELGERPP EDNQS FQYDH EAFLGKEDSK TFDQLTPDES KERLGKIVDR<br>IDNDGDGFVT TEELKTWIKR VQKRYIFDNV AKVWKDYDRD KDDKISWEEY<br>KQATYGYL LG NPAEFHDSSD HHTFKKMLPR DERRFKAADL NGDLTATREE<br>FTAFLHPEEF EHMKEIVVLE TLEDIDKNGD GFVDQDEYIA DMFSHEENGP<br>EPDWVLSERE QFNEFRDLNK DGKLDKDEIR HWILPQDYDH AQAEARHLVY<br>ESDKNKDEKL TKEEILENWN MFVGSQATNY GEDLTKNHDE L                                                                                                                                                                                     |

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|                      |                                                                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>        | > 80% by SDS – PAGE.                                                                                                                                  |
| <b>Form</b>          | Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 1mM DTT, 100mM NaCl.                                                                    |
| <b>Concentration</b> | 1 mg/ml (determined by Bradford assay).                                                                                                               |
| <b>Storage</b>       | 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. |

## GENE INFORMATION

|                            |                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | RCN1 reticulocalbin 1, EF-hand calcium binding domain [ Homo sapiens ]                                                                         |
| <b>Synonyms</b>            | RCN1; reticulocalbin 1, EF-hand calcium binding domain; RCN; RCAL; PIG20; FLJ37041; FLJ55835; reticulocalbin-1; proliferation-inducing gene 20 |
| <b>Gene ID</b>             | 5954                                                                                                                                           |
| <b>mRNA Refseq</b>         | NM_002901                                                                                                                                      |
| <b>Protein Refseq</b>      | NP_002892                                                                                                                                      |
| <b>MIM</b>                 | 602735                                                                                                                                         |
| <b>UniProt ID</b>          | Q15293                                                                                                                                         |
| <b>Chromosome Location</b> | 11p13                                                                                                                                          |
| <b>Function</b>            | calcium ion binding                                                                                                                            |

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