

## Recombinant Human RCAN1 cell lysate

**Cat. No.** RCAN1-510HCL    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>        | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>    | The protein encoded by this gene interacts with calcineurin A and inhibits calcineurin-dependent signaling pathways, possibly affecting central nervous system development. This gene is located in the minimal candidate region for the Down syndrome phenotype, and is overexpressed in the brain of Down syndrome fetuses. Chronic overexpression of this gene may lead to neurofibrillary tangles such as those associated with Alzheimer disease. Three transcript variants encoding three different isoforms have been found for this gene. |
| <b>Size</b>           | 100 ul                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage Buffer</b> | 1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Applications</b>   | Western Blot;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### GENE INFORMATION

|                        |                                                                                  |
|------------------------|----------------------------------------------------------------------------------|
| <b>Gene Name</b>       | RCAN1 regulator of calcineurin 1 [ Homo sapiens ]                                |
| <b>Official Symbol</b> | RCAN1                                                                            |
| <b>Synonyms</b>        | RCAN1; regulator of calcineurin 1; Down syndrome critical region gene 1 , DSCR1; |

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | calcipressin-1; near DSCR proline-rich protein; Down syndrome candidate region 1; calcium and oxidant-inducible mRNA; Down syndrome critical region gene 1; down syndrome critical region protein 1; modulatory calcineurin-interacting protein 1; myocyte-enriched calcineurin-interacting protein 1; CSP1; DSC1; RCN1; DSCR1; MCIP1; ADAPT78; |
| <b>Gene ID</b>             | <a href="#">1827</a>                                                                                                                                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>         | <a href="#">NM_004414</a>                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>      | <a href="#">NP_004405</a>                                                                                                                                                                                                                                                                                                                       |
| <b>MIM</b>                 | <a href="#">602917</a>                                                                                                                                                                                                                                                                                                                          |
| <b>UniProt ID</b>          | <a href="#">P53805</a>                                                                                                                                                                                                                                                                                                                          |
| <b>Chromosome Location</b> | 21q22.1-q22.2                                                                                                                                                                                                                                                                                                                                   |
| <b>Pathway</b>             | Calcium signaling in the CD4+ TCR pathway, organism-specific biosystem; MicroRNAs in cardiomyocyte hypertrophy, organism-specific biosystem; Notch-mediated HES/HEY network, organism-specific biosystem; Role of Calcineurin-dependent NFAT signaling in lymphocytes, organism-specific biosystem;                                             |
| <b>Function</b>            | DNA binding; protein binding; sequence-specific DNA binding transcription factor activity;                                                                                                                                                                                                                                                      |