

## Rabbit RCAN1 Polyclonal Antibody | anti-RCAN1 antibody

RCAN1 Antibody (N-term)

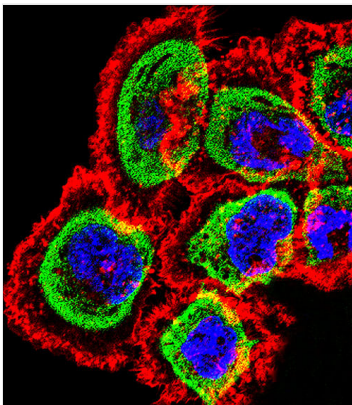
| CATALOG # | HOST   | REACTIVITY                          | APPLICATIONS                            |
|-----------|--------|-------------------------------------|-----------------------------------------|
| AAA290327 | Rabbit | Human (Predicted Reactivity: Mouse) | Immunofluorescence, ELISA, Western Blot |

### PRODUCT SYNONYMS

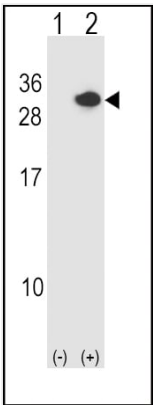
RCAN1; Polyclonal Antibody; RCAN1 Antibody (N-term); Calciopressin-1; Adapt78; Down syndrome critical region protein 1; Myocyte-enriched calcineurin-interacting protein 1; MCIP1; Regulator of calcineurin 1; ADAPT78; CSP1; DSC1; DSCR1; anti-RCAN1 antibody

### PRODUCT SPECIFICATIONS

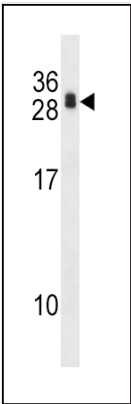
|                                                 |                                                                                                                                                                              |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                       |
| Reactivity                                      | Human (Predicted Reactivity: Mouse)                                                                                                                                          |
| Clonality                                       | Polyclonal                                                                                                                                                                   |
| Isotype                                         | Rabbit Ig                                                                                                                                                                    |
| Specificity                                     | This RCAN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 41-68 amino acids from the N-terminal region of human RCAN1.         |
| Purity/Purification                             | Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                   |
| Form/Format                                     | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Concentration                                   | Vial Concentration: 0.43 (varies by lot)                                                                                                                                     |
| Sequence Positions                              | 41-68                                                                                                                                                                        |
| Sequence Length                                 | 117                                                                                                                                                                          |
| Applicable Applications for anti-RCAN1 antibody | IF (Immunofluorescence), ELISA, WB (Western Blot)                                                                                                                            |
| Antigen Type                                    | Synthetic Peptide                                                                                                                                                            |
| Antigen Source                                  | HUMAN                                                                                                                                                                        |
| Preparation and Storage                         | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                       |



**IF (Immunofluorescence)**  
Fluorescent confocal image of A431 cell stained with RCAN1 Antibody (N-term). A431 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with RCAN1 primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree).Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). RCAN1 immunoreactivity is localized to Cytoplasm significantly.



**WB (Western Blot)**  
Western blot analysis of RCAN1 (arrow) using rabbit polyclonal RCAN1 Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the RCAN1 gene.



**WB (Western Blot)**  
RCAN1 Antibody (N-term) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the RCAN1 antibody detected the RCAN1 protein (arrow).

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-RCAN1 antibody | 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. |
| Product Categories/Family for anti-RCAN1 antibody   | Neuroscience                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| References                                          | Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :<br>Tam, G.W., et al. Biochem. Soc. Trans. 38(2):445-451(2010)<br>Lee, M.Y., et al. Hum. Mol. Genet. 19(3):468-479(2010)<br>Sales, K.J., et al. Am. J. Pathol. 176(1):435-445(2010)<br>Sales, K.J., et al. Biochim. Biophys. Acta 1793(12):1917-1928(2009)                                                                                                                                                                                                                                 |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                        |
|----------------------------------|----------------------------------------------------------------------------------------|
| NCBI GI #                        | 33620725                                                                               |
| NCBI GeneID                      | 1827                                                                                   |
| NCBI Accession #                 | NP_004405.3; NP_981962.1; NP_981963.1                                                  |
| NCBI GenBank Nucleotide #        | NM_004414.6                                                                            |
| UniProt Accession #              | P53805; O00582; O00583; Q53XT0; Q6IBC6; Q7Z555; Q96R03; Q9BU69; Q9UF15; Q9UME4; D3DSF9 |
| Molecular Weight                 | 28079                                                                                  |
| NCBI Official Full Name          | calcipressin-1 isoform a                                                               |
| NCBI Official Synonym Full Names | regulator of calcineurin 1                                                             |
| NCBI Official Symbol             | RCAN1                                                                                  |
| NCBI Official Synonym Symbols    | CSP1; DSC1; RCN1; DSCR1; MCIP1; ADAPT78                                                |
| NCBI Protein Information         | calcipressin-1                                                                         |
| UniProt Protein Name             | Calcipressin-1                                                                         |
| UniProt Gene Name                | <b>RCAN1</b>                                                                           |
| UniProt Synonym Gene Names       | ADAPT78; CSP1; DSC1; DSCR1; MCIP1                                                      |
| UniProt Entry Name               | RCAN1_HUMAN                                                                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rcan1-antibody-immunofluorescence-western-blot-elisa/290327>