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RCAN1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP16791A

Specification

RCAN1 Antibody (N-term) - Product Information

Application	**WB, IF,E**
Primary Accession	P53805
Other Accession	Q9JHG6, NP_004405.3, NP_981963.1
Reactivity	**Human**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**41-68**

RCAN1 Antibody (N-term) - Additional Information

Gene ID 1827

Other Names
Calcipressin-1, Adapt78, Down syndrome critical region protein 1, Myocyte-enriched calcineurin-interacting protein 1, MCIP1, Regulator of calcineurin 1, RCAN1, ADAPT78, CSP1, DSC1, DSCR1

Target/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.

Dilution
WB~~1:1000
IF~~1:10~50
E~~Use at an assay dependent concentration.

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.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
RCAN1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

RCAN1 Antibody (N-term) - Protein Information

Name RCAN1

Synonyms ADAPT78, CSP1, DSC1, DSCR1

Function Inhibits calcineurin-dependent transcriptional responses by binding to the catalytic domain of calcineurin A (PubMed:12809556). Could play a role during central nervous system development (By similarity).

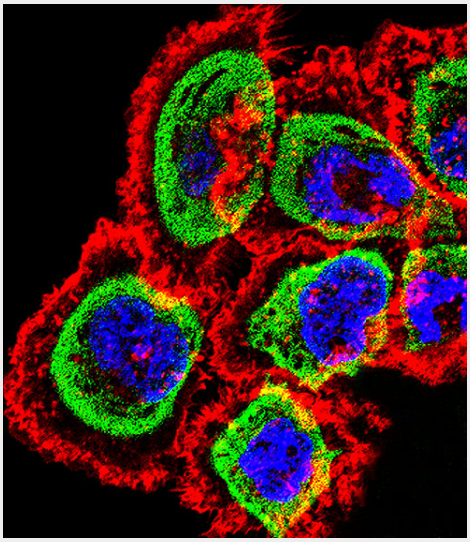
Tissue Location
Highly expressed heart, brain and skeletal muscle. Also expressed in all other tissues

RCAN1 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RCAN1 Antibody (N-term) - Images



Fluorescent confocal image of A431 cell stained with RCAN1 Antibody (N-term)(Cat#AP16791a).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℃). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37℃).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37℃). Nuclei were counterstained with DAPI (blue) (10 µg/ml, 10 min). RCAN1 immunoreactivity is localized to Cytoplasm significantly.

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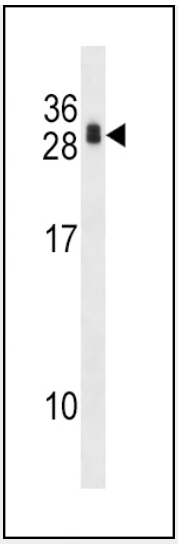
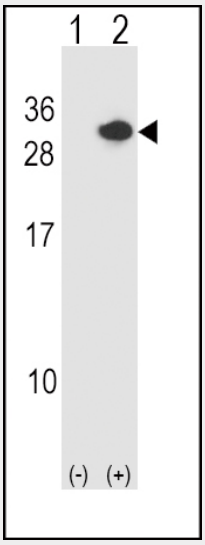


RCAN1 Antibody (N-term) (Cat. #AP16791a) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the RCAN1 antibody detected the RCAN1 protein (arrow).



Western blot analysis of RCAN1 (arrow) using rabbit polyclonal RCAN1 Antibody (N-term) (Cat. #AP16791a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the RCAN1 gene.

RCAN1 Antibody (N-term) - Background

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.

RCAN1 Antibody (N-term) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :

Tam, G.W., et al. Biochem. Soc. Trans. 38(2):445-451(2010)
Lee, M.Y., et al. Hum. Mol. Genet. 19(3):468-479(2010)
Sales, K.J., et al. Am. J. Pathol. 176(1):435-445(2010)
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