

Rabbit RCAN1/Dscr1 Polyclonal Antibody | anti-RCAN1 antibody

RCAN1/Dscr1 (a.a. 132-140) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71700	Rabbit	Human, Rat, Mouse	Immunocytochemistry, ELISA, Western Blot

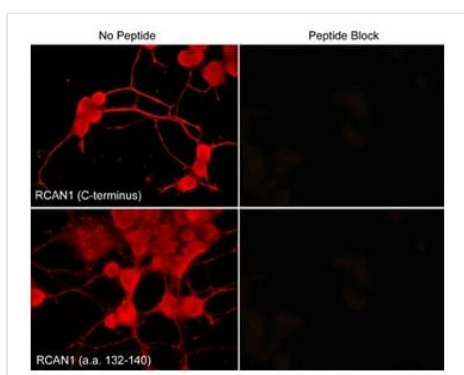
PRODUCT SYNONYMS

RCAN1/Dscr1; Polyclonal Antibody; RCAN1/Dscr1 (a.a. 132-140) Antibody; RCAN1/Dscr1 (a.a. 132-140); anti-RCAN1 antibody

PRODUCT SPECIFICATIONS

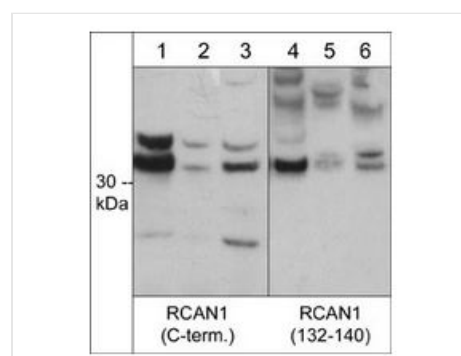
Host	Rabbit
Reactivity	Human, Rat, Mouse
Clonality	Polyclonal
Specificity	The antibody detects several isoforms of RCAN1 on SDS-PAGE immunoblots of mouse C2C12, rat PC12, and human Jurkat cells. The predominate isoform detected is the 38kDa RCAN1L, but the antibody may also detect RCAN2 and RCAN3.
Form/Format	Rabbit polyclonal, affinity-purified antibody is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-RCAN1 antibody	ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	RCAN1 synthetic peptide corresponding to amino acids 132 to 140 in human RCAN1S (isoform 2). This sequence is highly conserved in rat and mouse RCAN1, and this sequence is found in all four isoforms of RCAN1. In addition, this sequence has significant homology to RCAN2 and RCAN3.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



ICC (Immunocytochemistry)

Immunocytochemical labeling of RCAN1 in aldehyde-fixed NGF-differentiated PC12 cells. The cells were labeled with rabbit polyclonal anti-RCAN1 (C-terminus) (RP3941) and anti-RCAN1 (a.a. 132-140) (RP3961) antibodies (Left side). These antibodies were also used in the presence (Right side) of blocking peptide RX3945 and RX3965, respectively. The antibodies were detected using appropriate secondary antibody conjugated to DyLight 594.



WB (Western Blot)

Western blot analysis of RCAN1 expression in human Jurkat (lanes 1 & 4), mouse C2C12 (lanes 2 & 5), and rat PC12 (lanes 3 & 6). The blot was probed with rabbit polyclonal anti-RCAN1 (C-terminus) at 1:1000 and anti-RCAN1 (a.a. 132-140) at 1:500.

ADDITIONAL INFORMATION

Related Product Information for anti-RCAN1 antibody	An important element of calcium signaling pathways involves calmodulin activation of calcineurin (phosphatase PP2B), leading to dephosphorylation of transcription factors such as NFAT and MEF2. A wide variety of proteins other than calmodulin have also been implicated in regulating calcineurin activity. Regulators of Calcineurin (RCANs) include RCAN1, RCAN2, and RCAN3. RCAN1 has previously been referred to as Down's syndrome candidate region-1 (Dscr1), MCIP, calcipressin, and Adapt78. This RCAN is expressed as several different variants with RCAN1L (38kDa) and RCAN1S (31kDa) being most prevalent. RCAN1 is increased in Down's syndrome tissues and in a mouse model of Down's syndrome. Increased expression of RCAN1 leads to significant suppression of tumor growth in mice as result of deficits in calcineurin-induced tumor angiogenesis. RCAN1 can recruit TAB1, TAK1, and calcineurin into a macromolecular signaling complex, and TAK1 can phosphorylate Ser-94 and Ser-136 in RCAN1S. This phosphorylation converts RCAN1 from an inhibitor to a facilitator of calcineurin-NFAT signaling.
References	Baek, K.H. et al. (2009) Nature. 459(7250):1126. Liu, Q. et al. (2009) Nat Cell Biol. 11:154. Genesca, L. et al. (2003) Biochem J. 374:567.

NCBI AND UNIPROT INFORMATION

NCBI GI #	33620725
NCBI GeneID	1827
NCBI Accession #	NP_004405.3
NCBI GenBank Nucleotide #	NM_004414.5
UniProt Accession #	P53805; O00582; O00583; Q53XT0; Q6IBC6; Q7Z555; Q96R03; Q9BU69; Q9UF15; Q9UME4; D3DSF9
Molecular Weight	28,079 Da
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; 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-enri
UniProt Protein Name	Calcipressin-1
UniProt Gene Name	RCAN1
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/rcan1-dscr1-antibody-immunocytochemistry-western-blot-elisa/71700>