

Rabbit RCAN1/Dscr1 Polyclonal Antibody | anti-RCAN1C antibody

RCAN1/Dscr1 (C-terminus) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71699	Rabbit	Human, Rat, Mouse	Immunocytochemistry, ELISA, Western Blot

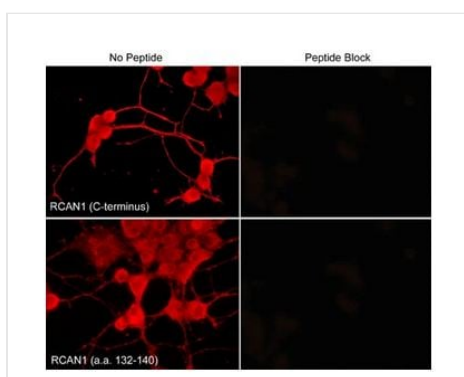
PRODUCT SYNONYMS

RCAN1/Dscr1; Polyclonal Antibody; RCAN1/Dscr1 (C-terminus) Antibody; RCAN1/Dscr1 (C-terminus); anti-RCAN1C antibody

PRODUCT SPECIFICATIONS

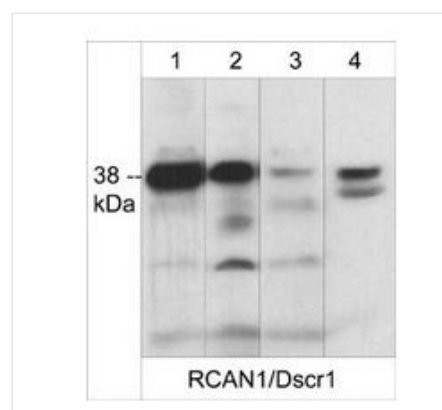
Host	Rabbit
Reactivity	Human, Rat, Mouse
Clonality	Polyclonal
Specificity	The antibody detects several isoforms of RCAN1 on SDS-PAGE immunoblots of adult mouse muscle and brain, rat PC12 cells, and human A431 and Jurkat cells. The predominate isoforms detected were the 38kDa RCAN1L and 31kDa RCAN1S.
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-RCAN1C antibody	ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	RCAN1 (C-terminus) synthetic peptide corresponding to amino acids in the C-terminus of human RCAN1. This sequence is highly conserved in rat and mouse RCAN1, and this sequence is found in all four isoforms of RCAN1, but is not found in RCAN2 or 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 (lane 1), rat PC12 (lane 2), human A431 (lane 3), and adult mouse muscle (lane 4). The blot was probed with rabbit polyclonal anti-RCAN1 (C-terminus) at 1:1000.

ADDITIONAL INFORMATION

Related Product Information for anti-RCAN1C 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

Molecular Weight	38kDa
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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-dscr1-antibody-immunocytochemistry-western-blot-elisa/71699>