RCAN1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RCAN1, Polyclonal Antibody
Full Product Name	RCAN1 Antibody
Product Gene Name	anti-RCAN1 antibody
Product Synonym Names	ADAPT78; calcipressin 1; CCP1; Down syndrome critical region protein 1; MCIP1
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	The antibody detects endogenous levels of total RCAN1 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	28,079 Da
Chromosome Location	Chromosome: 21; NC_000021.8 (35888782..35987382, complement). Location: 21q22.12
OMIM	602917
3D Structure	ModBase 3D Structure for P53805
Immunogen	Synthesized peptide derived from C-terminal of human RCAN1.
Product Categories/Family for anti-RCAN1 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RCAN1 antibody	Western Blot (WB)
Application Notes for anti-RCAN1 antibody	WB: 1:500~1:3000
Related Product Information for anti-RCAN1 antibody	Inhibits calcineurin-dependent transcriptional responses by binding to the catalytic domain of calcineurin A. Could play a role during central nervous system development.
Product References and Citations for anti-RCAN1 antibody	Fuentes J.-J., Hum. Mol. Genet. 4:1935-1944 (1995).Fuentes J.-J., Genomics 44:358-361 (1997).Genesca L., Biochem. J. 374:567-575 (2003
Other Notes	Small volumes of anti-RCAN1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RCAN1 purchase	MBS8588088 is an antibody targeting RCAN1. Also known as RCAN1 Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RCAN1. It may not necessarily be applicable to this product.

NCBI GI #	33620725
NCBI GeneID	1827
NCBI Accession #	NP_004405.3
UniProt Primary Accession #	P53805
UniProt Secondary Accession #	O00582; O00583; Q53XT0; Q6IBC6; Q7Z555; Q96R03; Q9BU69; Q9UF15; Q9UME4; D3DSF9
UniProt Related Accession #	P53805
GenBank Nucleotide #	NM_004414.5
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
UniProt Protein Name	Calcipressin-1
UniProt Synonym Protein Names	Adapt78; Down syndrome critical region protein 1; Myocyte-enriched calcineurin-interacting protein 1; MCIP1; Regulator of calcineurin 1
Protein Family	Calcipressin
UniProt Gene Name	RCAN1
UniProt Synonym Gene Names	ADAPT78; CSP1; DSC1; DSCR1; MCIP1
UniProt Entry Name	RCAN1_HUMAN
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
NCBI Summary for RCAN1	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. [provided by RefSeq, Jul 2008]
UniProt Comments for RCAN1	RCAN1: Inhibits calcineurin-dependent transcriptional responses by binding to the catalytic domain of calcineurin A. Could play a role during central nervous system development. Interacts with RAF1. By calcium. Highly expressed heart, brain and skeletal muscle. Also expressed in all other tissues. Belongs to the RCAN family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Inhibitor Chromosomal Location of Human Ortholog: 21q22.12 Cellular Component: nucleus Molecular Function: identical protein binding; protein binding; DNA binding; transcription factor activity Biological Process: central nervous system development; regulation of transcription, DNA-dependent; blood circulation; calcium-mediated signaling; signal transduction
Research Articles on RCAN1	**1.** These findings suggest that up-regulation of RCAN1 expression followed by activation of the CREB pathway is required in GC-induced apoptosis.

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