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DSCR1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6315b

Product Information

Application	WB, E
Primary Accession	P53805
Other Accession	Q7Z555
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB2181
Calculated MW	28079
Antigen Region	75-104

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 DSCR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 75-104 amino acids from the Central region of human DSCR1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	DSCR1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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

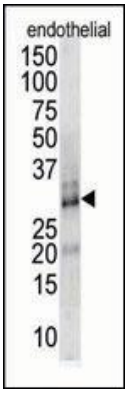
Background

DSCR1 (calcipressin 1) interacts with calcineurin A and inhibits calcineurin-dependent signaling pathways, possibly affecting central nervous system development. Thr gene for this protein 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.

References

Minami, T., et al., J. Biol. Chem. 279(48):50537-50554 (2004). Yao, Y.G., et al., Biochem. Biophys. Res. Commun. 321(3):648-656 (2004). Michtalik, H.J., et al., Free Radic. Biol. Med. 37(4):454-462 (2004). Hesser, B.A., et al., Blood 104(1):149-158 (2004). Iizuka, M., et al., Biochem. Biophys. Res. Commun. 41(4):334-344 (2004).

Images



The anti-DSCR1 Pab (Cat. #AP6315b) is used in Western blot to detect DSCR1 in endothelial cell lysate.



Endothelial cell lysate transferred to membrane was incubated with primary antibody at a 1:500 dilution in 2% BSA in TBST at 4 deg C overnight. Data courtesy of Dr. Katherine Healey, NWCRF Institute, School of Biological Sciences, University of Wales Bangor.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.