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DSCR1 Antibody (N-term M1) Blocking Peptide

Synthetic peptide
Catalog # BP6315a

Specification

DSCR1 Antibody (N-term M1) Blocking Peptide - Product Information

Primary Accession	P53805
Other Accession	Q7Z555

DSCR1 Antibody (N-term M1) Blocking Peptide - 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
The synthetic peptide sequence used to generate the antibody AP6315a was selected from the N-term region of human DSCR1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

DSCR1 Antibody (N-term M1) Blocking Peptide - 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

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DSCR1 Antibody (N-term M1) Blocking Peptide - Protocols

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

- Blocking Peptides

DSCR1 Antibody (N-term M1) Blocking Peptide - Images

DSCR1 Antibody (N-term M1) Blocking Peptide - 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.

DSCR1 Antibody (N-term M1) Blocking Peptide - 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).