

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

Calciopressin-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](/product/products/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: <http://www.uniprot.org/citations/12809556> target="_blank">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

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. The 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).