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DSCR3 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP6319a

Specification

DSCR3 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O14972

DSCR3 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 10311

Other Names
Down syndrome critical region protein 3, Down syndrome critical region protein A, DSCR3, DCRA, DSCRA

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6319a was selected from the N-term region of human DSCR3. 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.

DSCR3 Antibody (N-term) Blocking Peptide - Protein Information

Name VPS26C (HGNC:3044)

Function
Component of the commander complex that is essential for endosomal recycling of transmembrane cargos; the commander complex is composed of the CCC subcomplex and the retriever subcomplex (PubMed:37172566, PubMed:39587083, PubMed:38062209, PubMed:38459129). Component of the retriever complex, which is a heterotrimeric complex related to retromer cargo-selective complex (CSC) and essential for retromer-independent retrieval and recycling of numerous cargos such as integrin alpha-5/beta-1 (ITGA5:ITGB1) (PubMed:28892079, PubMed:<a href="http://www.uniprot.org/citations/37172566"

target="_blank">37172566, PubMed:39587083, PubMed:38062209, PubMed:38459129). The recruitment of the retriever complex to the endosomal membrane involves CCC and WASH complexes (PubMed:28892079). In the endosomes, drives the retriever and recycling of NxxY-motif-containing cargo proteins by coupling to SNX17, a cargo essential for the homeostatic maintenance of numerous cell surface proteins associated with processes that include cell migration, cell adhesion, nutrient supply and cell signaling (PubMed:28892079, PubMed:39587083).

Cellular Location
Endosome.

Tissue Location
Ubiquitously expressed.

DSCR3 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

DSCR3 Antibody (N-term) Blocking Peptide - Images

DSCR3 Antibody (N-term) Blocking Peptide - Background

The region of chromosome 21 between genes CBR and ERG (CBR-ERG region), which spans 2.5 Mb on 21q22.2, has been defined by analysis of patients with partial trisomy 21. It contributes significantly to the pathogenesis of many characteristics of Down syndrome, including morphological features, hypotonia, and mental retardation. The DSCR3 (Down syndrome critical region gene 3) gene is found in this region and is predictated to contain eight exons. DSCR3 is expressed in most tissues examined.

DSCR3 Antibody (N-term) Blocking Peptide - References

Dahmane, N., et al., Genomics 48(1):12-23 (1998).Nakamura, A., et al., J. Biochem. 122(4):872-877 (1997).