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DSCR3 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6319a

Product Information

Application	WB, E
Primary Accession	O14972
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB2286
Calculated MW	33010
Antigen Region	1-30

Additional Information

Gene ID	10311
Other Names	Down syndrome critical region protein 3, Down syndrome critical region protein A, DSCR3, DCRA, DSCRA
Target/Specificity	This DSCR3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human DSCR3.
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	DSCR3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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: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.

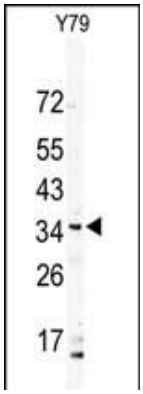
Background

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.

References

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

Images



Western blot analysis of DSCR3 Antibody (N-term) (Cat.#AP6319a) in Y79 cell line lysates (35ug/lane). DSCR3 (arrow) was detected using the purified Pab.

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