

Product Information

MemDX™ Membrane Protein Human SORCS3 (Sortilin related VPS10 domain containing receptor 3) Full Length

Cat. No.: **MPC1474K**

This product is for research use only and is not intended for diagnostic use.

This product is a 135.7 kDa Human SORCS3 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

SORCS3

Protein Length

Full length

Protein Class

Transporter

Molecular Weight

135.7 kDa

TMD

1

Sequence

MEAARTERPAGRPGAPLVRTGLLLLSTWVLAGEITWDATGGPGRPAAPA
SRPPALSPLSPRAVASQWPEELASARRAAVLGRRAGPELLPQQGGGRGGE
MQVEAGGTSPAGERRGRGIPAPAKLGGARRSRRAQPPITQERGDWATAP
ADGSRGSRPLAKGSREEVKAPRAGGSAEDLRPSTSFALTGDSAHNQAM
VHWSGHNSSVILITKLYDFNLGSVTESSLWRSTDYGTTYEKLNDKVGLK
TVLSYLYVNPTNKRKIMLLSDPEMESSILISSDEGATYQKYRLTFYIQL
LFHPKQEDWVLAYS LDQKLYSSMDFGRRWQLMHERITPNRFYWSVAGLDK
EADLVHMEVRTTDGYAHYLT CRIQECAETTRSGPFARSIDISSLVVQDEY
IFIQVTTSGRASYYSYRREAF AQIKLPKYS LPKDMHIISTDENQVFAAV
QEWNQNDTYNLYISDTRGIYFTLAMENIKSSRGLMGNIIELEYEVAGIKG
IFLANKKVDDQVKTYITYNKGRDWRLQAPDVLRGSPVHCLLPFCSLHL
HLQLSNPYSSGRISKETAPGLVVATGNIGPELSYTDIGVFISDGGNT
WRQIFDEEYNVWFLDWGGALVAMKHTPLPVRHLWVSFDEGHSDWKYGFTS
VPLFVDGALVEAGMETHIMTVFGHFSLRSEWQLVKVDYKSIFSRHCTKED
YQTWHL LNQGEPCVMGERKIFKKRKP GAQCALGRDHSGSVVSEPCVCANW
DFECDYGYERHGESQCVP AFWYNPASPSKDCSLGQSYLNSTGYRRIVSNN
CTDGLREKYTAKAQMC PGKAPRGLHVVT TDGRLVAEQGHNATFIILMEEG
DLQRTNIQLDFGDGIAVS YANFSPIEDGIKHVYKSAGIFQVTAYAENNLG
SDTAVLFLHVVCPEHVHLRVPFVAIRNKEVNISAVVWPSQLGTLTYFWW

FGNSTKPLITLDSSISFTFLAEGTDTITVQVAAGNALIQDTKEIAVHEYF
QSQLLSFSPNLDYHNPDIEWRKDIGNVIKRALVKVTSVPEDQILIAVFP
GLPTSAELFILPPKNLTERRKGNEDLEQIVETLFFNALNQNLVQFELKPG
VQVIVYVTQLTLAPLVDSSAGHSSSAMLMLLSVVFVGLAVFLIYKFKRKI
PWINIYAQVQHDKEQEMIGSVSQSENAPKITLSDFTEPEELLDKELDTRV
IGGIATIANSESTKEIPNCTSV

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

SORCS3

Full Name

Sortilin related VPS10 domain containing receptor 3

Introduction

This gene encodes a type-I receptor transmembrane protein that is a member of the vacuolar protein sorting 10 receptor family. Proteins of this family are defined by a vacuolar protein sorting 10 domain at the N-terminus. The N-terminal segment of this domain has a consensus motif for proprotein convertase processing, and the C-terminal segment of this domain is characterized by ten conserved cysteine residues. The vacuolar protein sorting 10 domain is followed by a leucine-rich segment, a transmembrane domain, and a short C-terminal cytoplasmic domain that interacts with adaptor molecules. The transcript is expressed at high levels in the brain, and candidate gene studies suggest that genetic variation in this gene is associated with Alzheimer's disease. Consistent with this observation, knockdown of the gene in cell culture results in an increase in amyloid precursor protein processing.

Alternative Names

SORCS3; SORCS; VPS10 domain-containing receptor SorCS3; VPS10 domain receptor protein SORCS 3 (SORCS3); Sortilin related VPS10 domain containing receptor 3

Gene ID

[22986](#)

UniProt ID

[Q9UPU3](#)