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Product Information

MemDX™ Membrane Protein Human SELENOK (Selenoprotein K) Full Length

Cat. No.: **MPC2998K**
This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human SELENOK 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
SELENOK

Protein Length
Full length

Protein Class
Transporter

TMD
1

Sequence
MVYISNGQVLDSRSQSPWRLSLITDFFWGIAEFVVLFFKTLLQQDVKKRR
SYGNSSDSRYDDGRGPPGNPPRRMGRINHLRGPSPPPMAGGUGR

Product Description

Expression Systems
HEK293

Tag
Based on specific requirements

Protein Format
Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form
Liquid

Storage
Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw

cycles.

Target

Target Protein

SELENOK

Full Name

Selenoprotein K

Introduction

The protein encoded by this gene belongs to the selenoprotein K family. It is a transmembrane protein that is localized in the endoplasmic reticulum (ER), and is involved in ER-associated degradation (ERAD) of misfolded, glycosylated proteins. It also has a role in the protection of cells from ER stress-induced apoptosis. Knockout studies in mice show the importance of this gene in promoting Ca(2+) flux in immune cells and mounting effective immune response. This protein is a selenoprotein, containing the rare amino acid selenocysteine (Sec). Sec is encoded by the UGA codon, which normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, designated the Sec insertion sequence (SECIS) element, that is necessary for the recognition of UGA as a Sec codon, rather than as a stop signal. Pseudogenes of this locus have been identified on chromosomes 6 and 19.

Alternative Names

SELENOK; SELK; HSPC030; HSPC297; Selenoprotein K

Gene ID

58515

UniProt ID

Q9Y6D0

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