SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com
www.creative-biolabs.com

Product Information

MemDX™ Membrane Protein Human KDELR3 (KDEL endoplasmic reticulum protein retention receptor 3) Full Length

Cat. No.: **MPC2449K**
This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human KDELR3 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
KDELR3

Protein Length
Full length

Protein Class
Transporter

TMD
7

Sequence
MNVFRILGDLSHLLAMILLLGKIWRSKCCKGISGKSQILFALVFTTRYLD
LFTNFISIYNTVMKVVFLLCAYVTVYMIYGKFRKTFDSENDTFRLEFLLV
PVIGLSFLENYSFTLLEILWTFSIYLESVAILPQLFMISKTGEAETITTH
YLFFLGLYRALYLANWIRRYQTENFYDQIAVVSGVVQTIFYCDFFYLYVT
KVLKGKKLSLPMPI

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

KDELR3

Full Name

KDEL endoplasmic reticulum protein retention receptor 3

Introduction

This gene encodes a member of the KDEL endoplasmic reticulum protein retention receptor family. Retention of resident soluble proteins in the lumen of the endoplasmic reticulum (ER) is achieved in both yeast and animal cells by their continual retrieval from the cis-Golgi, or a pre-Golgi compartment. Sorting of these proteins is dependent on a C-terminal tetrapeptide signal, usually lys-asp-glu-leu (KDEL) in animal cells, and his-asp-glu-leu (HDEL) in S. cerevisiae. This process is mediated by a receptor that recognizes, and binds the tetrapeptide-containing protein, and returns it to the ER. In yeast, the sorting receptor encoded by a single gene, ERD2, is a seven-transmembrane protein. Unlike yeast, several human homologs of the ERD2 gene, constituting the KDEL receptor gene family, have been described. KDELR3 was the third member of the family to be identified. Alternate splicing results in multiple transcript variants.

Alternative Names

KDELR3; ERD2L3; ER lumen protein-retaining receptor 3; KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 3; KDEL receptor 3; KDEL endoplasmic reticulum protein retention receptor 3

Gene ID

11015

UniProt ID

O43731

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