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Product Information

MemDX™ Membrane Protein Human KDELR1 (KDEL endoplasmic reticulum protein retention receptor 1) Expressed *in vitro E.coli* expression system, Full Length

Cat. No.: **MPX2884K**
This product is for research use only and is not intended for diagnostic use.

This product is a Human KDELR1 membrane protein expressed *in vitro E.coli* expression system. 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
KDELR1

Protein Length
Full Length

Protein Class
Transport

TMD
7

Sequence
MNLFRFLGDLSHLLAIILLLLKIWKSRSCAGISGKSQVLFAVVFTARYLDLFTNYISLYNTCMKVVYIACSFTTVWLIYSKFKATYDGNH

Product Description

Expression Systems
in vitro E.coli expression system

Tag
10xHis tag at the N-terminus

Protein Format
Soluble

Form
Liquid or Lyophilized powder

Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

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

KDELR1

Full Name

KDEL endoplasmic reticulum protein retention receptor 1

Introduction

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, which is a seven-transmembrane protein. Unlike yeast, several human homologs of the ERD2 gene, constituting the KDEL receptor gene family, have been described. The protein encoded by this gene was the first member of the family to be identified, and it encodes a protein structurally and functionally similar to the yeast ERD2 gene product.

Alternative Names

KDELR1; ERD2; HDEL; PM23; ERD2.1; ER lumen protein-retaining receptor 1; KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 1; KDEL receptor 1; putative MAPK-activating protein PM23; KDEL endoplasmic reticulum protein retention receptor 1

Gene ID

10945

UniProt ID

P24390

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