

Product Information

MemDX™ Membrane Protein Human ERAP1 (Endoplasmic reticulum aminopeptidase 1) Full Length

Cat. No.: **MPC3508K**

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

This product is a made-to-order Human ERAP1 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

ERAP1

Protein Length

Full length

Protein Class

Immunity

TMD

1

Sequence

MVFLPLKWSLATMSFLLSLLALLTVSTPSWCQSTEASPKRSDGTFPFWN
KIRLPEYVIPVHYDLLIHANLTTLTFWGTTKVEITASQPTSTIILHSHHL
QISRATLRKGAGERLSEEPLQVLEHPRQEQIALLAPEPLLVLGYTVVIH
YAGNLSETFHGFYKSTYRTKEGELRILASTQFEPTAARMAFPCFDEPAFK
ASFSIKIRREPRHLAISNMPLVKSVTVAEGLIEDHFDVTVKMSTYLVAFI
ISDFESVSKITKSGVKVSVYAVDPKINQADYALDAAVTLLEFYEDYFSIP
YPLPKQDLAAIPDFQSGAMENWGLTTYRESALLFDAEKSSASSKLGITMT
VAHELAHQWFGNLTMEWWNDLWLNNEGFAKFMEFVSVSVTHPELKVG DYF
FGKCFDAMEVDALNSSHPVSTPVENPAQIREMFDDVSYDKGACILNMLRE
YLSADAFKSGIVQYLQKHSYKNTKNEDLWDSMASICPTDGVKGMDGFCSR
SQHSSSSSHWHQEGVDVKTMMNTWTLQKGFPLITITVRGRNVHMKQEHYM
KGSDGAPDTGYLWHVPLTFITSKSDMVHRFLLKTKTDVLILPEEVEWIKF
NVGMNGYYIVHYEDDGWDSLTGLLKGTHAVSSNDRASLINNAFQLVSI
KLSIEKALDLSLYLKHETEIMPVFQGLNELIPMYKLMEKRD MN EVETQFK
AFLIRLLRDLIDKQTTWDEGSVSEMLRSQLLLLACVHNYQPCVQRAEGY
FRKWKESNGNLSLPVDVTLAVFAVGAQSTEGWDFLYSKYQFSLSTEKSY
IEFALCRTQNKEKLQWLLDESFGDKIKTQEFQILTLIGRNPVGYPLAW
QFLRKNWNKLQKFELGSSSIAHVMGTTNQFSTRTRLEEVKGFFSSLKE
NGSQLRCVQQTETIETIENIGWMDKNFDKIRVWLQSEKLERM

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

ERAP1

Full Name

Endoplasmic reticulum aminopeptidase 1

Introduction

The protein encoded by this gene is an aminopeptidase involved in trimming HLA class I-binding precursors so that they can be presented on MHC class I molecules. The encoded protein acts as a monomer or as a heterodimer with ERAP2. This protein may also be involved in blood pressure regulation by inactivation of angiotensin II. Three transcript variants encoding two different isoforms have been found for this gene.

Alternative Names

ERAP1; ALAP; A-LAP; ARTS1; ERAAP; APPILS; ARTS-1; ERAAP1; PILSAP; PILS-AP; CTD-2260A17.2; adipocyte-derived leucine aminopeptidase; aminopeptidase PILS; aminopeptidase regulator of TNFR1 shedding; endoplasmic reticulum aminopeptidase associated with antigen processing; puromycin-insensitive leucyl-specific aminopeptidase; type 1 tumor necrosis factor receptor shedding aminopeptidase regulator; Endoplasmic reticulum aminopeptidase 1

Gene ID

[51752](#)

UniProt ID

[Q9NZ08](#)