

Product Information

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

Expressed in NS0 for Antibody Discovery, Partial (37-941aa)

Cat. No.: **MPX0579K**

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

This product is a 105 kDa Human ERAP1 membrane protein expressed in NS0. 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

Partial (37-941aa)

Protein Class

Immunity

Molecular Weight

105 kDa

TMD

1

Sequence

ASPKRSDGTPFPWKNIRLPEYVIP
VHYDLLIHANLTTLTFWGTTKVEITASQPTSTIILHSHHLQISRATLRKGAGERLSEEP
QVLEHPPQEIQIALLAPEPLLVGLPYTVVIHYAGNLSETFHGFYKSTYRTKEGELRILAST
QFEPTAARMAFPCFDEPAFKASFSIKIRREPRHLAISNMPLVKSVTVAEGLIEDHFDVT
KMSTYLVAFIISDFESVSKITKSGVKVSVYAVPDKINQADYALDAAVTLLEFYEDYFSIP
YPLPKQDLAAIPDFQSGAMENWGLTTYRESALLFDAEKSSASSKLGITMTVAHELHQWF
GNLVTMEWWNDLWLNEGFAKFMEFVSVSVTHPELVGDFYFFGKCFDAMEVDALNSSHPVS
TPVENPAQIREMFDDVSYDKGACILNMLREYLSADAFKSGIVQYLQKHSYKNTKNEDLWD
SMASICPTDGVKGMDFGCSRSQHSSSSSHWHQEGVDVKTMMNTWTLQRGFPLITITVRGR
NVHMKQEHYMKGSDGAPDTGYLWHVPLTFITSKSDMVHRFLLKTKTDVLILPEEVEWIKF
NVGMNGYYIVHYEDDGWDSLTGLLKGTHAVSSNDRASLINNAFQLVSIGKLSIEKALDL
SLYLKHETEIMPVFQGLNELIPMYKLMEKRDMEVETQFKAFLIRLLRDLIDKQWTWDEG
SVSERMLRSELLLLACVHNYQPCVQRAEGYFRKWKESNGNLSLPVDVTLAVFAVGAQSTE
GWDFLYSKYQFSLSTEKSQIEFALCRTCQNEKLQWLLDESFGKDKIKTQEFPPQILTLIG
RNPVGYPYLAQWFLRKNWNKLVQKFELGSSSIAHMVMGTTNQFSTRTRLEEVKGFFSSLKE
NGSQLRCVQQTETIEENIGWMDKNFDKIRVWLQSEKLERM

Product Description

Activity

Yes

Expression Systems

NS0

Tag

10xHis tag at the C-terminus

Protein Format

Soluble

Form

Liquid

Endotoxin

<1.0 EU per 1 µg of the protein by the LAL method.

Purity

>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.

Buffer

Supplied as a 0.2 µm filtered solution in Tris and NaCl.

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

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](#)