

LRAP / ERAP2 recombinant protein

Recombinant Human LRAP / ERAP2 Protein (His tag)

CATALOG #
AAA173558

HOST
Human Cells

PRODUCT SYNONYMS

LRAP / ERAP2; Recombinant Human LRAP / ERAP2 Protein (His tag); FLJ23633; FLJ23701; FLJ23807; L-RAP; LRAP.ERAP2; LRAP / ERAP2 recombinant protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	> 98 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 12.5mM Tris, 75mM NaCl, pH 7.5, 50% glycerol
Sequence Length	960
Predicted N Terminal	Leu 24
Endotoxin	< 1.0 EU per mug of the protein as determined by the LAL method
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -70 degree C

ADDITIONAL INFORMATION

Related Product Information for LRAP / ERAP2 recombinant protein

Background: Leukocyte-derived arginine aminopeptidase (LRAP), also known as endoplasmic reticulum-aminopeptidase 2 (ERAP2), is the second identified aminopeptidase localized in the in the luminal side of endoplasmic reticulum (ER) processing antigenic peptides presented to major histocompatibility complex (MHC) class I molecules. It is a 960-amino acid protein with significant homology to placental leucine aminopeptidase and adipocyte-derived leucine aminopeptidase. LRAP preferentially hydrolyzes the basic residues Arg and Lys, and contains the HEXXH (X)18E zinc-binding motif, which is the characteristic of the M1 family of zinc metalloproteases which also includes PILS/ARTS1/ERAP1 and LNPEP/PLAP. Induced by interferon-gamma, LRAP is able to trim various MHC class I antigenic peptide precursors.

Description: A DNA sequence encoding the luminal domain of human ERAP2 (NP_071745.1) (Ala 56-Thr 960) was expressed with a polyhistidine tag at the N-terminus.

NCBI AND UNIPROT INFORMATION

NCBI GI #	11641261
NCBI GeneID	64167
NCBI Accession #	NP_071745.1
NCBI GenBank Nucleotide #	NM_022350.4
UniProt Accession #	Q6P179 ; Q7Z5K1 ; Q8TD32 ; Q8WVJ4 ; Q9HBX2
Molecular Weight	40,088 Da
NCBI Official Full Name	endoplasmic reticulum aminopeptidase 2 isoform 1
NCBI Official Synonym Full Names	endoplasmic reticulum aminopeptidase 2
NCBI Official Symbol	ERAP2

NCBI Official Synonym Symbols	LRAP; L-RAP
NCBI Protein Information	endoplasmic reticulum aminopeptidase 2
UniProt Protein Name	Endoplasmic reticulum aminopeptidase 2
UniProt Gene Name	ERAP2
UniProt Synonym Gene Names	LRAP; L-RAP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/erap2-recombinant-protein-human/173558>