

Product Name: KD-Validated Endoplasmic Reticulum Aminopeptidase 1 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01462

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 107.2kDa

Antigen Information

Gene Name	ERAP1
Alternative Names	ERAP1; Endoplasmic Reticulum Aminopeptidase 1; PILS-AP; ARTS-1; A-LAP; Puromycin-Insensitive Leucyl-Specific Aminopeptidase; Adipocyte-Derived Leucine Aminopeptidase; KIAA0525; ERAAP1; Type 1 Tumor Necrosis Factor Receptor Shedding Aminopeptidase Regulator; Aminopeptidase Regulator Of TNFR1 Shedding; Aminopeptidase PILS; APPILS; ARTS1; Endoplasmic Reticulum Aminopeptidase Associated With Antigen Processing; EC 3.4.11.- 4; EC 3.4.11.3; EC 3.4.11; PILSAP; ERAAP; ALAP
Gene ID	51752.0
SwissProt ID	Q9NZ08
Immunogen	A synthesized peptide derived from human ERAP1

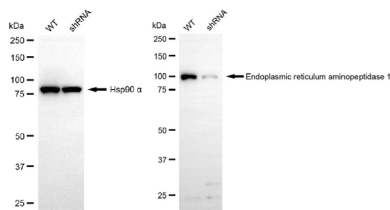
Background

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.[provided by RefSeq, Oct 2010]

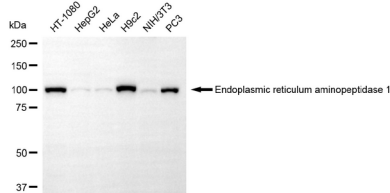
Research Area

Immunology, Cell Biology, Cardiovascular

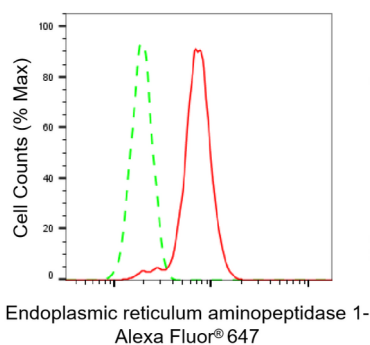
Image Data



Western blotting analysis using endoplasmic reticulum aminopeptidase 1 antibody (KVA01462). Endoplasmic reticulum aminopeptidase 1 expression in wild-type (WT) and endoplasmic reticulum aminopeptidase 1 (ERAP1) shRNA knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with endoplasmic reticulum aminopeptidase 1 antibody (KVA01462, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using endoplasmic reticulum aminopeptidase 1 antibody (KVA01462). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with endoplasmic reticulum aminopeptidase 1 antibody (KVA01462, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Flow cytometric analysis of Endoplasmic reticulum aminopeptidase 1 expression in HT-1080 cells using Endoplasmic reticulum aminopeptidase 1 antibody (KVA01462, 1:2,000). Green, isotype control; red, Endoplasmic reticulum aminopeptidase 1.