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# ERAP1 Antibody

Rabbit mAb
Catalog # AP92476

## Product Information

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| **Application** | WB, IHC |
| **Primary Accession** | Q9NZ08 |
| **Reactivity** | Rat, Human, Mouse |
| **Clonality** | Monoclonal |
| **Other Names** | ALAP; Aminopeptidase PILS; APPILS; Arts1; Endoplasmic reticulum aminopeptidase 1; ERAAP; ERAAP1; Erap1; PILSA; PILSAP; |
| **Isotype** | Rabbit IgG |
| **Host** | Rabbit |
| **Calculated MW** | 107235 |

## Additional Information

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| **Dilution** | WB 1:500~1:2000 IHC 1:50~1:200 |
| **Purification** | Affinity-chromatography |
| **Immunogen** | A synthesized peptide derived from human ERAP1 |
| **Description** | Aminopeptidase that plays a central role in peptide trimming, a step required for the generation of most HLA class I-binding peptides. Peptide trimming is essential to customize longer precursor peptides to fit them to the correct length required for presentation on MHC class I molecules. Strongly prefers substrates 9-16 residues long. |
| **Storage Condition and Buffer** | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |

## Protein Information

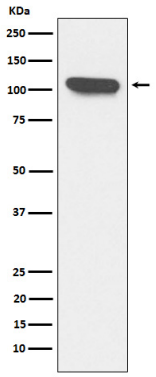
| | |
|---|---|
| **Name** | ERAP1 |
| **Synonyms** | APPILS, ARTS1, KIAA0525 |
| **Function** | Aminopeptidase that plays a central role in peptide trimming, a step required for the generation of most HLA class I-binding peptides. Peptide trimming is essential to customize longer precursor peptides to fit them to the correct length required for presentation on MHC class I molecules. Strongly prefers substrates 9-16 residues long (PubMed:16286653, PubMed:26224046). Rapidly degrades 13-mer to a 9-mer and then stops (PubMed:16286653). Preferentially hydrolyzes the residue Leu and peptides with a hydrophobic C-terminus, while it has weak activity toward peptides with charged C-terminus. May play a role in the inactivation of peptide hormones. May be involved in the regulation of blood pressure through the inactivation of angiotensin II and/or the generation of bradykinin in the |

kidney.

**Cellular Location** Endoplasmic reticulum membrane; Single-pass type II membrane protein

**Tissue Location** Ubiquitous.

## Images




Western blot analysis of ERAP1 expression in K562 cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.