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ERAP1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51192

Specification

ERAP1 Antibody - Product Information

Application	**WB**
Primary Accession	Q9NZ08
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**107 KDa**
Antigen Region	**441 - 500**

ERAP1 Antibody - Additional Information

Gene ID 51752

Other Names
Endoplasmic reticulum aminopeptidase 1, 3411-, ARTS-1, Adipocyte-derived leucine aminopeptidase, A-LAP, Aminopeptidase PILS, Puromycin-insensitive leucyl-specific aminopeptidase, PILS-AP, Type 1 tumor necrosis factor receptor shedding aminopeptidase regulator, ERAP1, APPILS, ARTS1, KIAA0525

Target/Specificity
KLH conjugated synthetic peptide derived from human ERAP1

Dilution
WB~~ 1:1000

Format
0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage
Store at -20 °C.Stable for 12 months from date of receipt

ERAP1 Antibody - 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. Rapidly degrades 13-mer to a 9-mer and then stops. 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

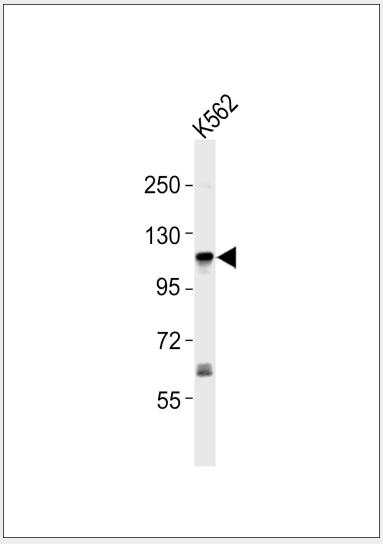
Tissue Location
Ubiquitous.

ERAP1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ERAP1 Antibody - Images



Anti-ERAP1 Antibodyat 1:1000 dilution + K562 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution Predicted band size : 107 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

ERAP1 Antibody - Background

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ERAP1 Antibody - References

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Nagase T.,et al.DNA Res. 5:31-39(1998).