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ARTS1 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7859c

Specification

ARTS1 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q9NZ08
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**107235**
Antigen Region	**451-480**

ARTS1 Antibody (Center) - 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
This ARTS1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 451-480 amino acids from the Central region of human ARTS1.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
ARTS1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

ARTS1 Antibody (Center) - Protein Information

Name ERAP1

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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

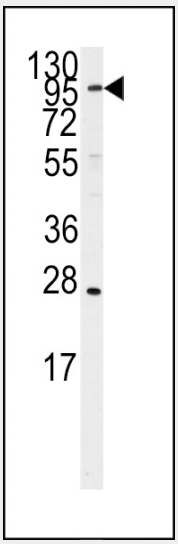
Tissue Location
Ubiquitous.

ARTS1 Antibody (Center) - 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

ARTS1 Antibody (Center) - Images



Western blot analysis of anti-ARTS1 Antibody (Center) (Cat.#AP7859c) in Ramos cell line lysates (35ug/lane). ARTS1 (arrow) was detected using the purified Pab.

ARTS1 Antibody (Center) - Background

Aminopeptidases play a role in the metabolism of several peptides that may be involved in blood pressure and the pathogenesis of essential hypertension. Adipocyte-derived leucine aminopeptidase (ALAP) is a member of the M1 family of zinc metallopeptidases.

ARTS1 Antibody (Center) - References

Goto,Y., Biochem. J. 416 (1), 109-116 (2008)
Fruci,D., J. Cell. Physiol. 216 (3), 742-749 (2008)
Adamik,B., Biochem. Biophys. Res. Commun. 371 (3), 505-509 (2008)