

ARTS1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP7859c**Specification**

ARTS1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q9NZ08](#)**ARTS1 Antibody (Center) Blocking Peptide - 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

The synthetic peptide sequence used to generate the antibody [AP7859c](/products/AP7859c) was selected from the Center region of human ARTS1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ARTS1 Antibody (Center) Blocking Peptide - 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.

ARTS1 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ARTS1 Antibody (Center) Blocking Peptide - Images**ARTS1 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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)