

ARTS1 / ERAP1 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS11042**Specification**

ARTS1 / ERAP1 Antibody (Internal) - Product Information

Application	IHC-P
Primary Accession	Q9NZ08
Reactivity	Human, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	107kDa KDa
Dilution	IHC-P~~N/A

ARTS1 / ERAP1 Antibody (Internal) - Additional Information**Gene ID** 51752**Other Names**

Endoplasmic reticulum aminopeptidase 1, 3.4.11.-, 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

Human ERAP1 / ARTS1. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

ARTS1 / ERAP1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

ARTS1 / ERAP1 Antibody (Internal) - 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.

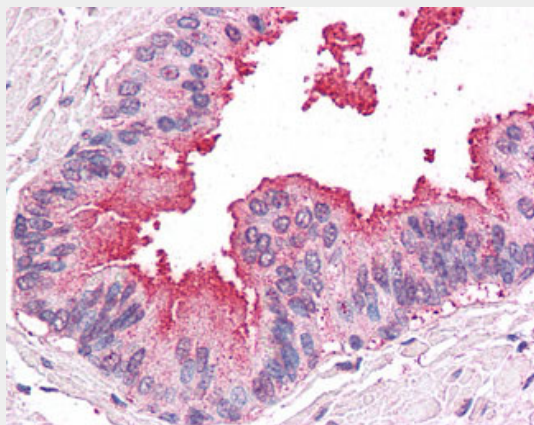
Volume

50 μ l

ARTS1 / ERAP1 Antibody (Internal) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ARTS1 / ERAP1 Antibody (Internal) - Images

Anti-ERAP1 / ARTS1 antibody ALS11042 IHC of human prostate.

ARTS1 / ERAP1 Antibody (Internal) - Background

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ARTS1 / ERAP1 Antibody (Internal) - References

Hattori A.,et al.J. Biochem. 125:931-938(1999).
Hattori A.,et al.J. Biochem. 130:235-241(2001).
Schomburg L.,et al.Submitted (SEP-1999) to the EMBL/GenBank/DDBJ databases.
Cui X.,et al.Submitted (JAN-2000) to the EMBL/GenBank/DDBJ databases.
Nagase T.,et al.DNA Res. 5:31-39(1998).