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ARTS1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7859c

Product Information

Application	WB, E
Primary Accession	Q9NZ08
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB16869
Calculated MW	107235
Antigen Region	451-480

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.

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.

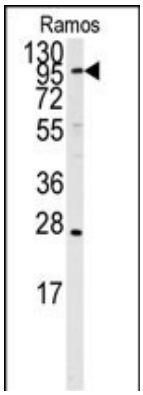
Background

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.

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)

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.

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