Product Datasheet

ARTS-1 Antibody

Catalog No: #34085

Package Size: #34085-1 50ul #34085-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

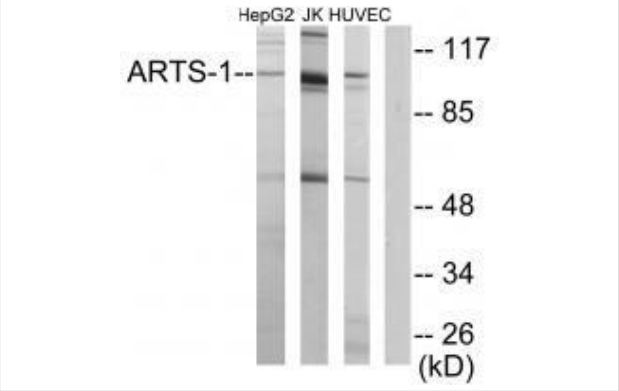
Description

Product Name	ARTS-1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of total ARTS-1 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human ARTS-1.
Target Name	ARTS-1
Other Names	A- LAP; APPILS; ARTS-1; Adipocyte-derived leucine aminopeptidase precursor; Aminopeptidase PILS
Accession No.	Swiss-Prot: Q9NZ08NCBI Gene ID: 51752
Uniprot	Q9NZ08
GeneID	51752;
SDS-PAGE MW	107kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

Western blotting: 1:500~1:3000

Images



Western blot analysis of extracts from HepG2 cells, Jurkat cells and HUVEC cells, using ARTS-1 antibody #34085.

Background

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.

Hattori A., J. Biochem. 130:235-241(2001).
Nakajima D., DNA Res. 9:99-106(2002).
Clark H.F., Genome Res. 13:2265-2270(2003).

Note: This product is for in vitro research use only