

Datasheet for ABIN740085  
**anti-Apelin antibody (AA 65-77)**[Go to Product page](#)

## 1 Publication

## Overview

Quantity:	100 µL
Target:	Apelin (APLN)
Binding Specificity:	AA 65-77
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Apelin antibody is un-conjugated
Application:	ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Apelin
Isotype:	IgG
Specificity:	The antibody's immunogen sequence is derived from the Apelin-13 peptide. Therefore the Antibody can detect each of the active peptides that can be produced via proteolytic processing of the Apelin precursor.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

## Target Details

Target:	Apelin (APLN)
Alternative Name:	Apelin ( <a href="#">APLN Products</a> )
Background:	<p>Synonyms: AGTRL1 ligand, APEL, APEL_HUMAN, Apelin-13, Apelin13, Apelin 13, APJ endogenous ligand, Apln, XNPEP2</p> <p>Background: Apelin is a neuropeptide expressed in the supraoptic and paraventricular nuclei and is an endogenous ligand for APJ, a G protein-coupled orphan receptor which is an alternative coreceptor with CD4 for HIV-1. Apelin and APJ are ubiquitously expressed in peripheral tissues, with highest levels reported for heart and lungs, as well several regions within the central nervous system. The actions of apelin remain largely unknown: Apelin inhibits HIV-1 entry in cells coexpressing CD4 and APJ, the oral intake of Apelin in colostrum and breast milk could have a role in the modulation of the immune responses in neonates, more recent studies have also indicated a role for Apelin in the central control of body fluid homeostasis, by influencing AVP release and drinking behavior. In the cardiovascular system several actions of Apelin have been described, including endothelium-dependent vasodilatation, vasoconstriction through direct action on smooth muscle and positive inotropism.</p>
Gene ID:	8862
UniProt:	<a href="#">Q9ULZ1</a>
Pathways:	<a href="#">Positive Regulation of Peptide Hormone Secretion</a> , <a href="#">Hormone Activity</a> , <a href="#">Feeding Behaviour</a>

## Application Details

Application Notes:	ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

## Handling

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Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

## Publications

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Product cited in: Kasacka, Piotrowska, Filipek, Lebkowski: "Comparative evaluation of cannabinoid receptors, apelin and S100A6 protein in the heart of women of different age groups." in: **BMC cardiovascular disorders**, Vol. 18, Issue 1, pp. 190, (2019) ([PubMed](#)).