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Datasheet for ABIN882973

anti-Apelin antibody (AA 65-77) (Alexa Fluor 488)

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 conjugated to Alexa Fluor 488
Application:	Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

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)
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Target Details

Alternative Name: Apelin ([APLN Products](#))

Background: Synonyms: AGTRL1 ligand, APEL, APEL_HUMAN, Apelin-13, Apelin13, Apelin 13, APJ endogenous ligand, Apln, XNPEP2

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.

Gene ID: 8862

UniProt: [Q9ULZ1](#)

Pathways: [Positive Regulation of Peptide Hormone Secretion](#), [Hormone Activity](#), [Feeding Behaviour](#)

Application Details

Application Notes: 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: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Handling

Storage:	-20 °C
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Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
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Expiry Date:	12 months
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