

Product datasheet

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ARG59117 anti-ANP / Atrial Natriuretic Peptide antibody

Package: 50 μg Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes ANP / Atrial Natriuretic Peptide

Tested Reactivity Ms, Rat
Predict Reactivity Hu, Hm
Tested Application WB

Host Rabbit
Clonality Polyclonal

Isotype IgG

Target Name ANP / Atrial Natriuretic Peptide

Species Human

Immunogen Synthetic peptide corresponding to aa. 124-151 of Human ANP / Atrial Natriuretic Peptide.

(SLRRSSCFGGRMDRIGAQSGLGCNSFRY)

Conjugation Un-conjugated

Alternate Names CDD; Natriuretic peptides A; ANF; Cardiodilatin; Cardiodilatin-related peptide; Atrial natriuretic peptide;

Prepronatriodilatin; ATFB6; CDP; ATRST2; ANP; CDD-ANF; PND

Application Instructions

Application table	Application	Dilution
	WB	0.1 - 0.5 μg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Affinity purification with immunogen.

Buffer 0.9% NaCl, 0.2% Na2HPO4, 0.05% Sodium azide and 5% BSA.

Preservative 0.05% Sodium azide

Stabilizer 5% BSA

Concentration 0.5 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol NPPA

Gene Full Name natriuretic peptide A

Background The protein encoded by this gene belongs to the natriuretic peptide family. Natriuretic peptides are

implicated in the control of extracellular fluid volume and electrolyte homeostasis. This protein is synthesized as a large precursor (containing a signal peptide), which is processed to release a peptide from the N-terminus with similarity to vasoactive peptide, cardiodilatin, and another peptide from the C-terminus with natriuretic-diuretic activity. Mutations in this gene have been associated with atrial

fibrillation familial type 6. [provided by RefSeq, Sep 2009]

Function Hormone playing a key role in cardiovascular homeostasis through regulation of natriuresis, diuresis,

and vasodilation. Also plays a role in female pregnancy by promoting trophoblast invasion and spiral artery remodeling in uterus. Specifically binds and stimulates the cGMP production of the NPR1

receptor. Binds the clearance receptor NPR3. [UniProt]

Calculated Mw 16 kDa

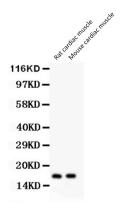
PTM Cleaved by CORIN upon secretion to produce the functional hormone.

Atrial natriuretic factor: Cleaved by MME. The cleavage initiates degradation of the factor and thereby

regulate its activity. [UniProt]

Cellular Localization Secreted. [UniProt]

Images



ARG59117 anti-ANP / Atrial Natriuretic Peptide antibody WB image

Western blot: $50~\mu g$ of Rat cardiac muscle and Mouse cardiac muscle lysates stained with ARG59117 anti-ANP / Atrial Natriuretic Peptide antibody at $0.5~\mu g/ml$ dilution.