

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. (SLRRSSCFGGRMDRIGASGLGCNSFRY)
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.	

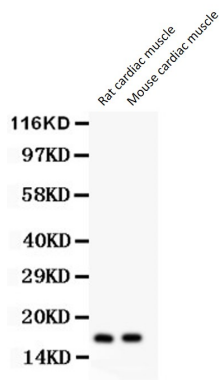
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 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 µg of Rat cardiac muscle and Mouse cardiac muscle lysates stained with ARG59117 anti-ANP / Atrial Natriuretic Peptide antibody at 0.5 µg/ml dilution.