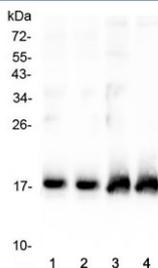


## ANP Antibody / ANF / Atrial Natriuretic Peptide (RQ4454)

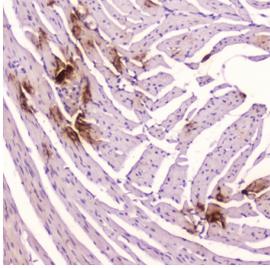
Catalog No.	Formulation	Size
RQ4454	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

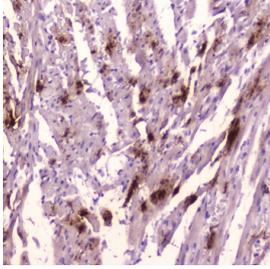
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
<b>UniProt</b>	P01161
<b>Localization</b>	Secreted
<b>Applications</b>	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml Direct ELISA : 0.1-0.5ug/ml (rat recombinant protein)
<b>Limitations</b>	This ANP antibody is available for research use only.



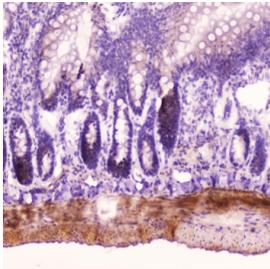
Western blot testing of two lots of rat heart lysate (lanes 1 & 2) and two lots of mouse heart lysate (lanes 3 & 4) with ANP antibody at 0.5ug/ml. Predicted molecular weight ~17 kDa.



IHC testing of FFPE mouse heart tissue with ANP antibody at 2ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



IHC testing of FFPE rat heart tissue with ANP antibody at 2ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



IHC testing of FFPE rat small intestine tissue with ANP antibody at 2ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.

## Description

Atrial natriuretic peptide (ANP), also known as NPPA or PND, is a powerful vasodilator, and a protein (polypeptide) hormone secreted by heart muscle cells. This gene is mapped to 1p36.22. It is involved in the homeostatic control of body water, sodium, potassium and fat (adipose tissue). ANP is released by muscle cells in the upper chambers (atria) of the heart (atrial myocytes) in response to high blood volume. It acts to reduce the water, sodium and adipose loads on the circulatory system, thereby reducing blood pressure. ANP has exactly the opposite function of the aldosterone secreted by the zona glomerulosa in regard to its effect on sodium in the kidney--that is, aldosterone stimulates sodium retention and it generates sodium loss.

## Application Notes

Optimal dilution of the ANP antibody should be determined by the researcher.

## Immunogen

Rat ANP recombinant protein (amino acids N25-R122) was used as the immunogen for the ANP antibody.

## Storage

After reconstitution, the ANP antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

