

ANF Antibody / ANP / Atrial Natriuretic Factor/Peptide (RQ4453)

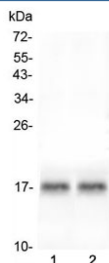
Catalog No.	Formulation	Size
RQ4453	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug



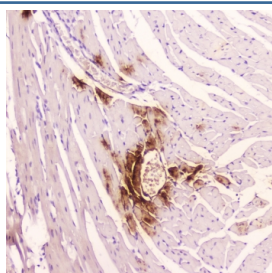
Citations (1)

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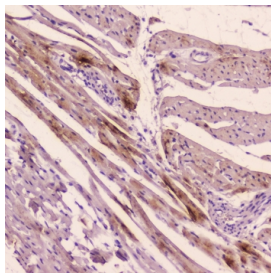
Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P05125
Localization	Secreted, intracellular
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml Direct ELISA : 0.1-0.5ug/ml (recombinant mouse protein)
Limitations	This ANF antibody is available for research use only.



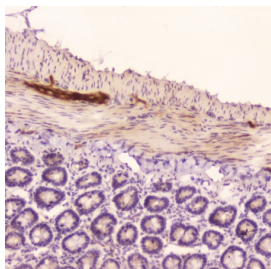
Western blot testing of two lots of mouse heart lysate with ANF antibody at 0.5ug/ml. Predicted molecular weight ~17 kDa.



IHC testing of FFPE mouse heart tissue with ANF 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 ANF 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 ANF 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 factor (ANF), also known as Atrial natriuretic peptide (ANP), 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). ANF 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. ANF 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 ANF antibody should be determined by the researcher.

Immunogen

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

Storage

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