ANP Antibody / Atrial Natriuretic Peptide/Factor (R31708)

Catalog No.	Formulation	Size
R31708	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	4878
Applications	Western blot: 0.5-1ug/ml
Limitations	This ANP antibody is available for research use only.



ANP Antibody Mouse Rat Heart WB. Western blot testing of ANP antibody and Lane 1: rat heart; 2: mouse heart lysate. Predicted molecular weight ~17kDa.

Description

Atrial natriuretic peptide (ANP), also known as Atrial natriuretic factor (ANF), 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.

Learn more about atrial natriuretic peptide signaling, cardiovascular hormone regulation, and natriuretic factor biology on our ANF Antibody page.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the ANP antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human Atrial natriuretic peptide (SLRRSSCFGGRMDRIGAQSGLGCNSFRY) was used as the immunogen for this ANP antibody.

Storage

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

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