

**PAA541Hu02**

**Polyclonal Antibody to Brain Natriuretic Peptide (BNP)**

**Organism Species: Homo sapiens (Human)**

***Instruction manual***

FOR IN VITRO USE AND RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

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9th Edition (Revised in Jul, 2013)

## **[ PRODUCT INFORMATION ]**

**Immunogen:** BNP-OVA

**Purification:** Affinity Chromatography.

**Clonality:** Polyclonal

**Applications:** WB, ICC, IHC-P, IHC-F, ELISA

**Host:** Rabbit

**Concentration:** 200µg/mL

**Immunoglobulin Type:** IgG

**UOM:** 100µg

## **[ IMMUNOGEN INFORMATION ]**

**Immunogen:** Synthetic Peptide, BNP conjugated to OVA.

**Accession No.:** CPA541Hu21

**Sequence:** The target peptide sequence is listed below.

SPKMQGSGCFGRKMDRI

## **[ RELEVANCE ]**

Brain natriuretic peptide (BNP), now known as B-type natriuretic peptide or Ventricular Natriuretic Peptide (still BNP), is a 32-amino acid polypeptide secreted by the ventricles of the heart in response to excessive stretching of heart muscle cells (cardiomyocytes). The release of BNP is modulated by calcium ions. The main clinical utility of either BNP or NT-proBNP is that a normal level rules out acute heart failure in the emergency setting. Either BNP or NT-proBNP can also be used for screening and prognosis of heart failure.

## **[ ANTIBODY SPECIFICITY ]**

The antibody is a rabbit polyclonal antibody raised against BNP conjugated to OVA. It has been selected for its ability to recognize BNP in immunohistochemical staining and western blotting.

## **[ APPLICATIONS ]**

Western blotting: 1:100-400

Immunocytochemistry in formalin fixed cells: 1:100-500

Immunohistochemistry in formalin fixed frozen section: 1:100-500

Immunohistochemistry in paraffin section: 1:50-200

Enzyme-linked Immunosorbent Assay: 1:100-200

Optimal working dilutions must be determined by end user.

## **[ CONTENTS ]**

**Form & Buffer:** Supplied as solution form in PBS, pH7.4, containing 0.02% NaN<sub>3</sub>, 50% glycerol.

## **[ STORAGE ]**

Store at 4°C for frequent use. Stored at -20°C to -80°C in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles.