

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Pro-BNP but does not detect mature human BNP peptide in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG Clone # 817130R
<b>Purification</b>	Protein A or G purified from cell culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Pro-BNP His27-His134 Accession # P16860
<b>Conjugate</b>	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
<b>Formulation</b>	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**ELISA** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

## BACKGROUND

Human BNP (brain natriuretic peptide) is a 3.5 kDa, secreted, nonglycosylated peptide that belongs to the natriuretic peptide family. It is the product of ventricular myocytes and bone marrow endothelial cells. BNP is synthesized as a 12 kDa, 108 amino acid (aa) prohormone with a 76 aa prosegment and a 32 aa mature (BNP) region. Both forms circulate, with the prohormone showing O-linked glycosylation that generates a 25-27 kDa glycoprotein. Glycosylation is suggested to stabilize the molecule. The proform also tends to noncovalently trimerize. In blood, 1-32 BNP is proteolytically processed into 3-32 BNP, with loss of Ser-Pro at the N-terminus. Human Pro-BNP is 29% and 50% aa identical to mouse and pig Pro-BNP, respectively.

## PRODUCT SPECIFIC NOTICES

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