

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Pro-BNP but does not detect mature human BNP peptide in direct ELISAs.
Source	Monoclonal Mouse IgG Clone # 817130R
Purification	Protein A or G purified from cell culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Pro-BNP His27-His134 Accession # P16860
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	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

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	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.

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