

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Pro-BNP in direct ELISAs and Western blots. No cross-reactivity with recombinant human BNP (aa 103-134) is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 370104
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Pro-BNP His27-His134 Accession # P16860
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

Western Blot 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

In cardiac tissue brain natriuretic peptide (BNP) is synthesized as 134 amino acid precursor (prepro-BNP), which is cleaved by proteases to form a 26 aa signal peptide and a 108 aa Pro-BNP (aa 27-134). Proteolytic digestion of Pro-BNP results in formation of 76 aa amino-terminal NT-proBNP (aa 27-102) and biologically active 32 aa BNP hormone molecule (aa 103-134). Both proBNP and NTpro-BNP circulate in human plasma and have been proposed as markers for early diagnosis of left ventricular dysfunction as well as prognostic markers of possible cardiac complications at patients with heart failure.

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