# Human N-Terminal Pro-BNP Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2258B
Catalog Number: MAB36042

## DESCRIPTION

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| **Species Reactivity** | Human |
| **Specificity** | Detects human Pro-BNP but does not detect mature human BNP peptide in direct ELISAs. |
| **Source** | Recombinant Monoclonal Rabbit IgG Clone # 2258B |
| **Purification** | Protein A or G purified from cell culture supernatant |
| **Immunogen** | *E. coli*-derived recombinant human Pro-BNP<br>His27-His134<br>Accession # P16860 |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS. |

## 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.*

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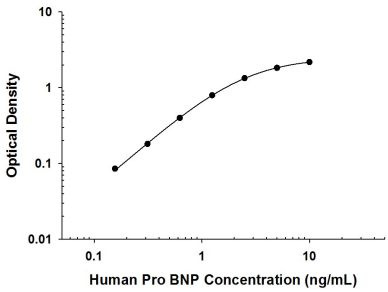
| **ELISA** | This antibody functions as an ELISA detection antibody when paired with Mouse Anti-Human N-Terminal Pro-BNP Monoclonal Antibody (Catalog # MAB9538).<br><br>*This product is intended for assay development on various assay platforms requiring antibody pairs. We recommend the Human NT Pro-BNP DuoSet ELISA Kit (Catalog # DY3604-05) for convenient development of a sandwich ELISA.* |

## DATA

**ELISA**




**Human Pro-BNP ELISA Standard Curve.** Recombinant human Pro-BNP protein was serially diluted 2-fold and captured by Mouse Anti-Human N-Terminal Pro-BNP Monoclonal Antibody (Catalog # MAB9538) coated on a Clear Polystyrene Microplate (Catalog # DY990). Rabbit Anti-Human N-terminal Pro-BNP Monoclonal Antibody (Catalog # MAB36042) was biotinylated and incubated with the protein captured on the plate. Detection of the standard curve was achieved by incubating Streptavidin-HRP (Catalog # DY998) followed by Substrate Solution (Catalog # DY999) and stopping the enzymatic reaction with Stop Solution (Catalog # DY994).

## PREPARATION AND STORAGE

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| **Reconstitution** | Reconstitute at 0.5 mg/mL in sterile PBS. |
| **Shipping** | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| **Stability & Storage** | **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**<br>● 12 months from date of receipt, -20 to -70 °C as supplied.<br>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

## 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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