

Human N-Terminal Pro-BNP Antibody

Monoclonal Mouse IgG_{2B} Clone # 370129 Catalog Number: MAB9538

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human N-Terminal Pro-BNP in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 370129
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant human N-Terminal Pro-BNP His27-His134 Accession # P16860
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

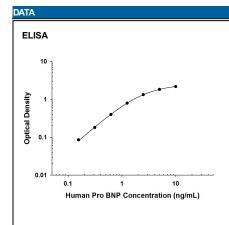
APPLICATIONS

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.

ELISA

This antibody functions as an ELISA capture antibody when paired with Rabbit Anti-Human N-terminal Pro-BNP Monoclonal Antibody (Catalog # MAB36042).

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.



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

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.

*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.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution

BACKGROUND

Brain-type Natriuretic Peptide (BNP) is a nonglycosylated peptide that is produced predominantly by ventricular myocytes and belongs to the natriuretic peptide family. Proteolytic cleavage of the 12 kDa BNP precursor gives rise to N-terminal Pro-BNP (NT-proBNP) and mature BNP. Plasma NT-proBNP is a marker for congestive heart failure, while mature BNP (aa 103-134) promotes vasodilation and fluid and sodium excretion. Human BNP precursor shares 29% and 51% aa sequence identity with mouse and porcine BNP precursor, respectively.

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