

**CATALOGUE #:** 4NT1 / 4NT1cc

**PRODUCT NAME:** Monoclonal anti-human N-terminal proBNP (NT-proBNP)

**Recombinant MAbs (Cat.# 4NT1cc):** **NT13, NT45, NT46**  
Recombinant monoclonal antibody expressed in a mammalian cell line. Full-size IgG sequence derived from rabbit B cells.

**MAbs *in vitro* (Cat.# 4NT1cc):** **5B6cc, 29D12cc, 15F11cc, 13G12cc, 18H5cc, 7B5cc, NT34cc, 11D1cc, 16E6cc, 15C4cc, 24E11cc**  
Mouse monoclonal antibody produced in bioreactor. Hybridoma clone derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice.

**MAbs *in vivo* (Cat.# 4NT1):** **16F3, 15D7, 28F8**  
Mouse monoclonal antibody produced in ascites. Hybridoma clone derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice.

**Immunogens:** Synthetic peptides corresponding to different regions of human NT-proBNP conjugated with a carrier protein.

**Specificity:** Human NT-proBNP and proBNP

Epitopes:

| MAb                   | a.a.r. |
|-----------------------|--------|
| 5B6cc                 | 1-12   |
| 29D12cc               | 5-12   |
| 15F11cc               | 13-24  |
| 13G12cc, 18H5cc, 16F3 | 15-20  |
| 7B5cc                 | 15-21  |
| NT34cc                | 25-34  |
| NT13                  | 27-31  |
| 11D1cc                | 31-39  |
| 16E6cc                | 34-39  |
| NT45, NT46            | 43-46  |
| 15D7                  | 48-56  |
| 15C4cc                | 63-71  |
| 24E11cc, 28F8         | 67-76  |

**MAb isotypes:** **IgG** for NT13, NT45, NT46

**IgG1** for 5B6cc, 18H5cc, 7B5cc, NT34cc, 11D1cc, 16E6cc, 16F3, 15D7

**IgG2a** for 29D12cc, 13G12cc, 24E11cc, 28F8

**IgG2b** for 15F11cc, 15C4cc

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**Applications:** NT-proBNP and proBNP immunoassays. All MAbs are working in Western Blotting.

Recommended pairs for sandwich immunoassay:

| Capture | Detection |
|---------|-----------|
| 15F11cc | 24E11cc   |
| 15C4cc  | 29D12cc   |
| 15C4cc  | 13G12cc   |
| 15C4cc  | 18H5cc    |
| 29D12cc | NT34cc    |
| NT13    | NT45      |
| NT13    | NT46      |
| 15F11cc | NT45      |
| 15F11cc | NT46      |
| 18H5cc  | NT45      |
| 18H5cc  | NT46      |

MAbs specific to peptides 5-12, 13-24, 15-20, 25-34, 27-31 and 15-21 recognize circulating proBNP and can be used for the development of quantitative proBNP assays in pairs with anti-BNP MAbs. The best pairs are:

| Capture | Detection |
|---------|-----------|
| 50E1cc  | 16F3      |
| 50E1cc  | 18H5cc    |

(Anti-BNP MAbs 50E1cc is under Cat.# 4BNP2cc)

**Purification:** Protein A chromatography

**Presentation:** PBS, pH 7.4, 0.09 % sodium azide (NaN<sub>3</sub>)

**Storage:** +4 °C (+2 ... +8 °C allowed)

**Material safety note:** This product is sold **for research or further manufacturing use only**. Standard Laboratory Practices should be followed when handling this material.

Product contains sodium azide as a preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling this product.