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

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

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Recommended pairs for sandwich immunoassay:

Capture	Detection
15F11cc	24E11cc
15C4cc	29D12cc
15C4cc	13G1cc2
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_3)

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.

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