



DataSheet

CATALOGUE #: 4NT1 / 4NT1cc

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

MAbs *in vitro*
(Cat.# 4NT1cc): 5B6cc, 29D12cc, 15F11cc, 13G12cc, 18H5cc, 7B5cc, NT34cc, 11D1cc, 16E6cc, 15C4cc, 24E11cc

MAbs *in vivo*
(Cat.# 4NT1): 16F3, 15D7, 28F8

Hybridoma clones have been derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice immunized with synthetic N-terminal pro brain natriuretic peptide (NT-proBNP), corresponding to amino acid residues 1-12 (5B6cc, 29D12cc), a.a.r. 13-27 (15F11cc, 13G12cc, 18H5cc, 7B5cc, 16F3), a.a.r. 22-36 (NT34cc), a.a.r. 28-45 (11D1cc, 16E6cc), a.a.r. 46-60 (15D7) and a.a.r. 61-76 (24E11cc, 28F8, 15C4cc). The peptides used for immunization were conjugated with carrier protein.

Specificity: Human NT-proBNP and proBNP.

MAb isotypes: **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 immunoassay. All MAbs are working in Western Blotting.
Best pairs for sandwich immunoassay (capture-detection):
15F11cc – 24E11cc, 15C4cc – 29D12cc, 15C4cc – 13G12cc, 15C4cc – 18H5cc, 29D12cc – NT34cc
These pairs recognize the antigen in blood of patients with heart failure, unstable angina and myocardial infarction.
MAbs specific to peptides 5-12 (29D12cc), 13-24 (15F11cc), 15-20 (13G12cc, 18H5cc, 16F3), 25-34 (NT34cc) and 15-21 (7B5cc) recognize circulating proBNP and can be used for the development of quantitative proBNP assays in pairs with anti-BNP MAbs (Cat.# 4BNP2 / 4BNP2cc).
The best pairs (capture-detection):
50E1cc – 16F3
50E1cc – 18H5cc
(50E1cc is under Cat.# 4BNP2cc)

Purification: Protein A chromatography

Presentation: PBS, pH 7.4, 0.09 % sodium azide (NaN₃)

Storage: +4 °C (+2 ... +8 °C allowed)

Material safety note: This product is sold **for research 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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