CATALOGUE #: **4BNP2 / 4BNP2cc**

PRODUCT NAME: **Monoclonal mouse anti-human brain natriuretic peptide (BNP)**

MAbs *in vitro* (Cat.# 4BNP2cc):
429cc, 100cc, 24C5cc, 130cc, 50E1cc, 50B7cc, 57H3cc
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.# 4BNP2):
26E2
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 human BNP, whole molecule, conjugated with carrier protein for 50E1cc, 50B7cc, 57H3cc, 429cc

Synthetic human BNP peptide a.a.r. 3-15 conjugated with carrier protein for 100cc

Synthetic human BNP peptide a.a.r. 11-22 conjugated with carrier protein for 24C5cc, 26E2

Recombinant fusion protein containing BNP fragment a.a.r. 5-28 for 130cc

Specificity:
Human BNP and proBNP

MAb isotypes:
IgG1 for 24C5cc, 50E1cc, 26E2, 130cc, 429cc

IgG2a for 57H3cc, 50B7cc, 100cc

Applications:
BNP and proBNP immunoassay. MAbs recognize BNP and proBNP in sandwich immunoassay.

24C5cc, 26E2, 50E1cc, 50B7cc and 57H3cc react with proBNP and BNP in Western blotting.

Recommended pairs for BNP sandwich immunoassay:

Capture	Detection
50E1cc	24C5cc
50E1cc	26E2
24C5cc	50B7cc
24C5cc	57H3cc

Capture	Detection
57H3cc	429cc
50E1cc	130cc
50E1cc	100cc
100cc	57H3cc

Sensitivity of the pair 50E1cc – 24C5cc is better than 1 pg/ml (synthetic BNP, Bachem). All pairs recognize with high sensitivity the antigen in plasma samples of patients with heart failure.

50E1cc can be used for proBNP detection in pairs with anti-NTproBNP 16F3 or 18H5cc (Cat.# 4NT1 and 4NT1cc).

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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