

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

MAbs *in vivo*
(Cat.# 4BNP2): 26E2

Hybridoma clones have been derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice immunized with:

Synthetic human BNP, whole molecule, conjugated with carrier protein (MAbs 50E1cc, 50B7cc, 57H3cc, 429cc)

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

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

Recombinant fusion protein containing BNP fragment a.a.r. 5-28 (MAb 130cc)

Specificity: Human BNP and proBNP

MAb isotypes: **IgG1** for MAbs 24C5cc, 50E1cc, 26E2, 130cc, 429cc
IgG2a for MAbs 57H3cc, 50B7cc, 100cc

Applications: BNP and proBNP immunoassay. All MAbs recognize BNP and proBNP in sandwich immunoassay. MAbs 24C5cc, 26E2, 50E1cc, 50B7cc and 57H3cc react with proBNP and BNP in Western blotting.

Recommended pairs for BNP sandwich immunoassay (capture-detection):

50E1cc – 24C5cc 57H3cc – 429cc

50E1cc – 26E2 50E1cc – 130cc

24C5cc – 50B7cc 50E1cc – 100cc

24C5cc – 57H3cc 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.

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

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 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.