CATALOGUE #: 4BNP2 / 4BNP2cc

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

**M Abs in vitro (Cat.# 4BNP2cc):**
- 429cc, 100cc, 24C5cc, 130cc, 50E1cc, 50B7cc, 57H3cc

**M Abs 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 (M Abs 50E1cc, 50B7cc, 57H3cc, 429cc)
- Synthetic human BNP peptide a.a.r. 3-15 conjugated with carrier protein (M Ab 100cc)
- Synthetic human BNP peptide a.a.r. 11-22 conjugated with carrier protein (M Abs 24C5cc, 26E2)
- Recombinant fusion protein containing BNP fragment a.a.r. 5-28 (M Ab 130cc)

**Specificity:** Human BNP and proBNP

**M Ab isotypes:**
- IgG1 for M Abs 24C5cc, 50E1cc, 26E2, 130cc, 429cc
- IgG2a for M Abs 57H3cc, 50B7cc, 100cc

**Applications:** BNP and proBNP immunoassay. All M Abs recognize BNP and proBNP in sandwich immunoassay.

M Abs 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
- 50E1cc – 100cc
- 24C5cc – 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.

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

**Purification:** Chromatography on protein A Sepharose

**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.