

## **Data Sheet**

## **HUMAN PRO-BRAIN NATRIURETIC PEPTIDE** [proBNP] (aa 1-21)

## **ANTIBODY, MONOCLONAL**

**Catalog no.:** AE1033.1 / AE1033.2

**Immunogen:** Synthetic human proBNP (aa 1-21) BSA-conjugated

(HPLGSPGSASDLETSGLQEQR)

**Synonyms:** Natriuretic peptides B,

Gamma-brain natriuretic

peptide

Swiss-Prot No: P16860

**Gene Information:** Gene Name: NPPB

GeneID: 4879

**Host:** Mouse Balb/c

**Clone no.:** 21-6-6

**Isotype:** IgG<sub>2a</sub>

**Matrix:** Cell culture supernatant,

Protein A purified, 200 mM Na-Citrate/Tris, 500 mM NaCl pH 7.5, 0.02%

NaN₃

**Specificity:** Synthetic human proBNP (aa 1-21), human proBNP

**Contents:** 10 μg / 100 μg

Resuspend in 10  $\mu$ l / 100  $\mu$ l aqua bidest.

**Known applications:** ELISA, immunohistochemistry (paraffin sections, 1:25)<sup>1</sup>

This antibody has not been tested for use in all applications. This does not necessarily exclude its use for non-tested procedures. The stated dilutions are recommendations only. We suggest that the applicant titrates the antibody in his/her system using appropriate negative/positive controls.

**Store at:** 2-8 °C (lyophilized); - 20 °C (dissolved)

Repeated thawing and freezing must be avoided

**References:** 1. Marchini A, Häcker B, Marttila T, Hesse V, Emons J, Weiss B, Karperien M, Rappold G (2007). BNP is a

transcriptional target of the short stature homeobox gene SHOX. *Human Molecular Genetics* **16**(24):

3081-3087.

**Last updated on:** 20 April 2022





Figure 1: Immunohistochemistry image of proBNP staining in paraffin section of human tibial growth plate. Antigen retrieval was performed in 5 μg/ml proteinase K (Invitrogen) in 100 mM Tris pH 8.0, 50 mM EDTA for 10 min. at 37°C. The sections were incubated with AE1033 (1:25) and detected using the biotin-streptavidin method. DAB was used as substrate. Sections were counterstained with hematoxylin. B. AE1033 stains the late proliferative, prehypertrophic and hypertrophic chondrocytes but not the resting and early proliferating cells. C. AE1033 preincubated with proBNP (aa 1-21) does not stain the section.

Marchini A et al. (2007) Hum Mol Genet16(24):3081-7.





## For research use only

Publishing research using AE1033? Please let us know so that we can cite your publication as a reference.