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Product datasheet for AM02178PU-N

BNP (NPPB) (NT-proBNP 1-21) Mouse Monoclonal Antibody [Clone ID: 21-6-6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	21-6-6
Applications:	ELISA, IHC
Recommended Dilution:	**ELISA.** **Immunohistochemistry Paraffin Sections:** 1/25 (Ref.1).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Synthetic Human pro-BNP (aa 1-21) poly-Lysine conjugated
Specificity:	This antibody detects Synthetic Human proBNP (aa 1-21), Human proBNP
Formulation:	200 mM Sodium Citrat / Tris, 500 mM NaCl buffer pH 7.5 containing 0.02% Sodium Azide State: Purified State: Lyophilized purified Cell Culture Supernatant
Reconstitution Method:	Restore in aqua bidest to 1 mg/ml
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C and reconstituted at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	natriuretic peptide B
Database Link:	Entrez Gene 4879 Human P16860

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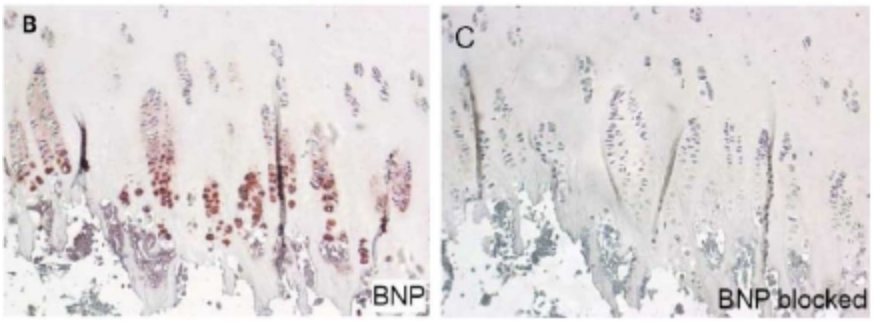
Background: In cardiac tissue brain natriuretic peptide (BNP) is synthesized as 134 amino acid precursor (prepro-BNP), which is cleaved by proteases to form a 26 aa "signal" peptide and a 108 aa pro-BNP. Proteolytic digestion of pro-BNP results in formation of 76 aa amino-terminal NT-proBNP and biologically active 32 aa BNP hormone molecule. Both proBNP and NTproBNP circulate in human plasma and have been proposed as markers for early diagnosis of left ventricular dysfunction as well as prognostic markers of possible cardiac complications at patients with heart failure.

Synonyms: NPPB, Brain natriuretic peptide, BNP, proBNP

Note: LocusID 4879

Product images:



Immunohistochemistry of proBNP staining in Paraffin section of Human tibial growth plate. Antigen retrieval was performed in 5 ug/ml proteinase K in 100mM Tris pH 8.0, 50mM EDTA for 10min at 37°C. The sections were incubated with AM02178PU (1/25) and detected using the biotin-streptavidin method. DAB was used as substrate. Sections were counterstained with hematoxylin. Image B: AM02178PU stains the late proliferative, prehypertrophic chondrocytes but not the resting and early proliferating cells. Image C: AM02178PU preincubated with proBNP (aa 1-21) does not stain the section. Marchini et al. (2007). Human Molecular Genetics 16 (24): 3081-3087.