

Product datasheet for **AM05621PU-N**

BNP (NPPB) (1-32) Mouse Monoclonal Antibody [Clone ID: 50E1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	50E1
Applications:	ELISA, WB
Recommended Dilution:	ELISA. Western Blot: detects a band of approximately 4kDa when using synthetic BNP and a band of 15kDa when using recombinant proBNP.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human synthetic BNP.
Specificity:	This antibody detects an epitope located at the C-terminal (amino acids 26-32) of the brain natriuretic peptide (BNP), a secreted protein which is a member of the natriuretic peptide family. This antibody also detects proBNP.
Formulation:	Phosphate buffered saline pH7.4 containing 0.09% Sodium Azide (NaN ₃) State: Purified State: Liquid purified IgG
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. 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:

BNP is a cardiac hormone, which is synthesised as a pro-hormone (proBNP), and is proteolytically cleaved to release a biologically active fragment (BNP), and an inactive fragment (NT-proBNP) into the circulation.

BNP is predominantly secreted from the cardiac ventricles in response to volume and pressure overload, and results in a number of biological activities including natriuresis, diuresis, vasorelaxation, and inhibition of the sympathetic nervous system. A high concentration of BNP in the bloodstream is indicative of heart failure.

Synonyms:

NPPB