

## ARG10146 anti-BNP antibody [50E1]

Package: 100 µg, 50 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [50E1] recognizes BNP
Tested Reactivity	Hu
Tested Application	ELISA, WB
Specificity	Human BNP and proBNP
Host	Mouse
Clonality	Monoclonal
Clone	50E1
Isotype	IgG1
Target Name	BNP
Species	Human
Immunogen	Human synthetic BNP (whole molecule)
Epitope	CKVLRH (a.a. 26-32 of human BNP)
Conjugation	Un-conjugated
Alternate Names	4-27; Natriuretic peptides B; 1-28; 1-29; 5-32; BNP; 1-32; 1-30; BNP-32; 5-29; 2-31; 4-30; 4-31; 4-32; 3-29; Gamma-brain natriuretic peptide; 3-30; 5-31; 3-32; 4-29

### Application Instructions

Application table	Application	Dilution
	ELISA	Assay-dependent
	WB	Assay-dependent
Application Note	sELISA: Recommended antibody pairs in sandwich immunoassay for BNP (capture - detection): ARG10146 - <a href="#">ARG10609</a> * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Protein A affinity purified.
Buffer	PBS (pH 7.4) and 0.1% Sodium azide
Preservative	0.1% Sodium azide
Concentration	1.0-2.0 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

**Note** For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

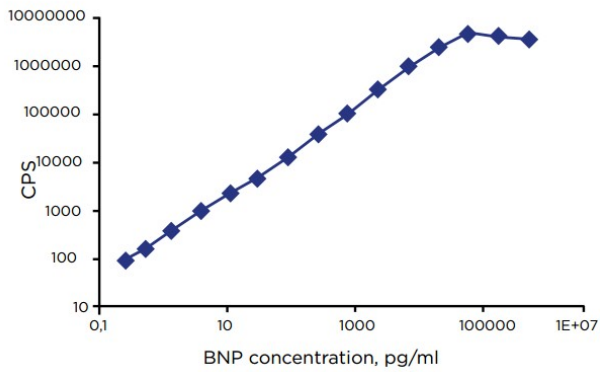
Database links	<a href="#">GeneID: 4879 Human</a> <a href="#">Swiss-port # P16860 Human</a>
Gene Symbol	NPPB
Gene Full Name	natriuretic peptide B
Background	This gene is a member of the natriuretic peptide family and encodes a secreted protein which functions as a cardiac hormone. The protein undergoes two cleavage events, one within the cell and a second after secretion into the blood. The protein's biological actions include natriuresis, diuresis, vasorelaxation, inhibition of renin and aldosterone secretion, and a key role in cardiovascular homeostasis. A high concentration of this protein in the bloodstream is indicative of heart failure. The protein also acts as an antimicrobial peptide with antibacterial and antifungal activity. Mutations in this gene have been associated with postmenopausal osteoporosis. [provided by RefSeq, Nov 2014]
Function	Cardiac hormone which may function as a paracrine antifibrotic factor in the heart. Also plays a key role in cardiovascular homeostasis through natriuresis, diuresis, vasorelaxation, and inhibition of renin and aldosterone secretion. Specifically binds and stimulates the cGMP production of the NPR1 receptor. Binds the clearance receptor NPR3. [UniProt]
Highlight	Related Antibody Duos and Panels: <a href="#">ARG30278 BNP ELISA Antibody Duo</a> Related products: <a href="#">BNP antibodies</a> ; <a href="#">BNP ELISA Kits</a> ; <a href="#">BNP Duos / Panels</a> ; <a href="#">Anti-Mouse IgG secondary antibodies</a> ;
Research Area	Cell Biology and Cellular Response antibody; Signaling Transduction antibody
Calculated Mw	15 kDa
PTM	The brain natriuretic peptide 32 form is cleaved at Pro-104 by the prolyl endopeptidase FAP (seprase) activity (in vitro).

## Images



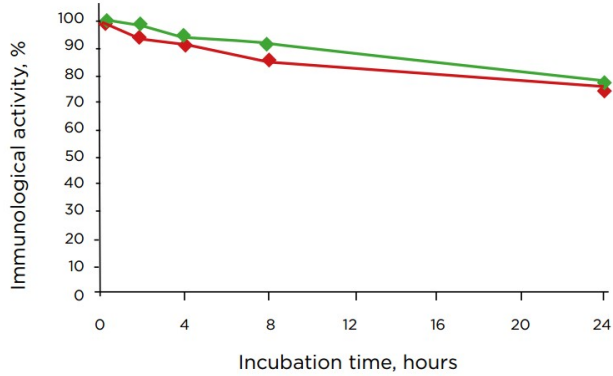
ARG10146 anti-BNP antibody [50E1] WB image

Western blot: Human synthetic BNP stained with ARG10146 anti-BNP antibody [50E1].



ARG10146 anti-BNP antibody [50E1] FLISA image

FLISA: Biotinylated [ARG10146](#) anti-BNP antibody [50E1] used as capture antibody and Eu3+ - labeled [ARG10609](#) anti-BNP antibody [24C5] used as detection antibody. Mixture of antibodies (50 µl) and synthetic BNP (50 µl) is incubated for 30 min at RT in streptavidincoated plate.



ARG10146 anti-BNP antibody [50E1] stability studies image

Stability studies: Recombinant glycosylated proBNP (from mammalian cell line) (green) and endogenous proBNP, purified from pooled HF patients plasma (red) were reconstituted in pooled normal human EDTA-plasma and incubated at RT for different time periods. Immunological activity was measured by immunoassay, utilizing [ARG10146](#) anti-BNP antibody [50E1] as capture and [ARG10609](#) anti-BNP antibody [24C5] as detection.



ARG10146 anti-BNP antibody [50E1] WB image

Western blot: Recombinant proBNP (E. coli expressed) stained with ARG10146 anti-BNP antibody [50E1].