proBNP Positive Control

PRODUCT OVERVIEW

Product Name	proBNP, Positive Control
Full Product Name	proBNP Positive Control
Product Gene Name	proBNP positive control
Product Synonym Names	BNP 32; BNP; BNP(1-32); BNP(5-29); Brain Natriuretic Peptide 32; Gamma brain natriuretic peptide; Natriuretic peptide precursor type B; NPPB antibody
Form/Format	Western Blot Positive Control
Preparation and Storage	-20• degree C for long term storage
Matching Pairs	Antibody: proBNP (MBS540055) Positive Control: proBNP (MBS543049)
Matching Pairs	Antibody: proBNP (MBS542474) Positive Control: proBNP (MBS543049)
Matching Pairs	Antibody: proBNP (MBS542475) Positive Control: proBNP (MBS543049)
Molecular Weight	14,726 Da
OMIM	600295
3D Structure	ModBase 3D Structure for P16860
Expression	Is expressed in the brain and atria, however it is expressed at much lower levels than ANP.
Molecular Function	Diuretic hormone activity, Hormone, Vasoactive
Subcellular Location	Secreted
Applications Tested/Suitable for proBNP positive control	Western Blot (WB)
Application Notes for proBNP positive control	Western Blot: 1:500
Related Product Information for proBNP positive control	Western Blot Positive Control Gamma-brain natriuretic peptide A cardiac hormone that may also serve as a paracrine antifibrotic factor in the heart. Also functions in cardiovascular homeostasis via natriuresis, diuresis, vasorelaxation, and the inhibition of renin and aldosterone secretion.
Other Notes	Small volumes of proBNP positive control vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for proBNP purchase	MBS543049 is a positive control targeting proBNP.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for proBNP. It may not necessarily be applicable to this product.

NCBI GI #	113836
NCBI GeneID	4879
NCBI Accession #	P16860.1

UniProt Primary Accession #	P16860
UniProt Secondary Accession #	Q6FGY0; Q9P2Q7; B0ZBE9
UniProt Related Accession #	P16860
NCBI Official Full Name	Natriuretic peptides B
NCBI Official Synonym Full Names	natriuretic peptide B
NCBI Official Symbol	NPPB
NCBI Official Synonym Symbols	BNP
UniProt Protein Name	Natriuretic peptides B
UniProt Synonym Protein Names	Gamma-brain natriuretic peptide
UniProt Gene Name	NPPB
UniProt Synonym Gene Names	BNP(1-32); BNP-32
UniProt Entry Name	ANFB_HUMAN
NCBI Protein Information	natriuretic peptides B
NCBI Summary for proBNP	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]
UniProt Comments for proBNP	NPPB: 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. Belongs to the natriuretic peptide family. Protein type: Secreted; Secreted, signal peptide; Hormone Chromosomal Location of Human Ortholog: 1p36.2 Cellular Component: extracellular region; extracellular space; protein complex Molecular Function: diuretic hormone activity; hormone activity; protein binding; receptor binding Biological Process: body fluid secretion; cell surface receptor linked signal transduction; cGMP biosynthetic process; negative regulation of angiogenesis; negative regulation of cell growth; receptor guanylyl cyclase signaling pathway; regulation of blood pressure; regulation of vascular permeability; regulation of vasodilation
Research Articles on proBNP	**1.** Low serum sodium was associated with an increased risk of cardiovascular and all-cause mortality in type 2 diabetes, but association was not explained by NT-proBNP.
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