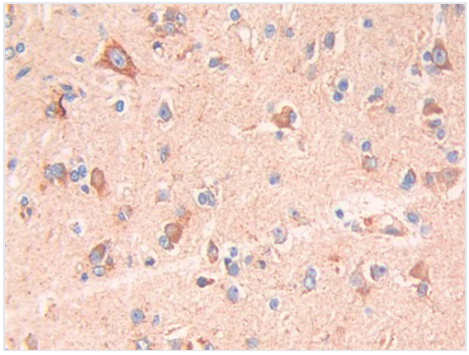
Brain Natriuretic Peptide (BNP) Antibody – Mouse Monoclonal

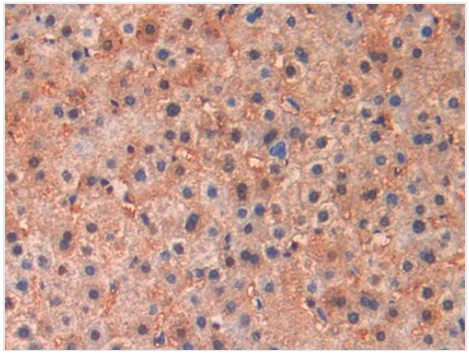
PRODUCT OVERVIEW

Product Name	Brain Natriuretic Peptide (BNP), Monoclonal Antibody
Full Product Name	Monoclonal Antibody to Brain Natriuretic Peptide (BNP)
Product Gene Name	anti-BNP antibody
Product Synonym Names	BNP/Brain Natriuretic Peptide; GCB; BType Natriuretic Peptide; Ventricular Natriuretic Peptide; Gammabrain natriuretic peptide; Brain natriuretic peptide 32
Clonality	Monoclonal
Isotype	IgG2b Kappa
Clone Number	C10
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid; 0.01M PBS, pH7.4, containing 0.05% Proclin300, 50% glycerol.
Purity/Purification	Protein A + Protein G affinity chromatography
Concentration	1mg/mL (lot specific)
Specificity	The antibody is a mouse monoclonal antibody raised against BNP. It has been selected for its ability to recognize BNP in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 2 degree C to 8 degree C for frequent use, 20 degree C for 24 months The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: BNP Clone #C10 (MBS2138564) APC-CY7 Conjugated Antibody: BNP Clone #C10 (MBS2129873)
Matching Pairs	Unconjugated Antibody: BNP Clone #C10 (MBS2138564) PE Conjugated Antibody: BNP Clone #C10 (MBS2129877)
Matching Pairs	Unconjugated Antibody: BNP Clone #C10 (MBS2138564) APC Conjugated Antibody: BNP Clone #C10 (MBS2129881)
Matching Pairs	Unconjugated Antibody: BNP Clone #C10 (MBS2138564) Cy3 Conjugated Antibody: BNP Clone #C10 (MBS2129885)
Matching Pairs	Unconjugated Antibody: BNP Clone #C10 (MBS2138564) Biotin Conjugated Antibody: BNP Clone #C10 (MBS2129889)
Matching Pairs	Unconjugated Antibody: BNP Clone #C10 (MBS2138564) FITC Conjugated Antibody: BNP Clone #C10 (MBS2129893)
Matching Pairs	Unconjugated Antibody: BNP Clone #C10 (MBS2138564) HRP Conjugated Antibody: BNP Clone #C10 (MBS2129897)
Molecular Weight	14,726 Da
OMIM	600295
3D Structure	ModBase 3D Structure for P16860

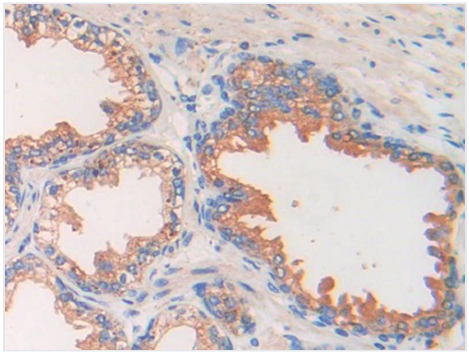
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen Type	Prokaryotic Recombinant proteins/RP
Sequence of Immunogen	Ser103~His134
Conjugation	Unconjugated
Product Categories/Family for anti-BNP antibody	Cardiovascular biology; Neuro science; Hormone metabolism; Primary
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-BNP antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Application Notes for anti-BNP antibody	WB: 0.53ug/mL IHC: 530ug/mL ICC: 530ug/mL
Related Product Information for anti-BNP antibody	MBS2138564 is an antibody targeting BNP. Also known as Monoclonal Antibody to Brain Natriuretic Peptide (BNP). Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-BNP antibody 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.



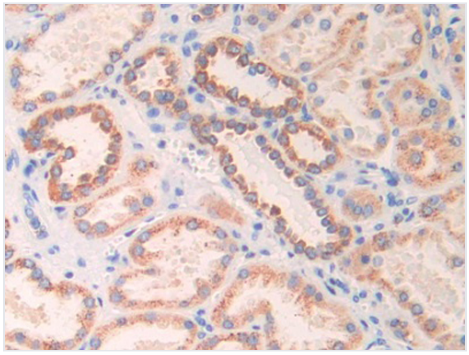
Immunohistochemistry (IHC) of anti-BNP antibody
DAB staining on IHCP; Sample: Human Cerebrum Tissue; Primary Ab: 30ug/ml Mouse AntiHuman BNP Antibody Second Ab: 2ug/mL HRPLinked Caprine AntiMouse IgG Polyclonal Antibody (Catalog: SAA544Mu19)



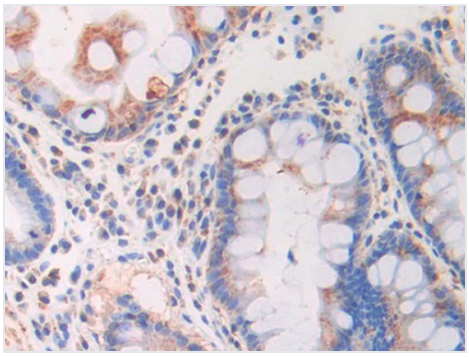
Immunohistochemistry (IHC) of anti-BNP antibody
DAB staining on IHCP;Sample: Human Liver Tissue; Primary Ab: 30ug/ml Mouse AntiHuman BNP AntibodySecond Ab: 2ug/mL HRPLinked Caprine AntiMouse IgG Polyclonal Antibody(Catalog: SAA544Mu19)



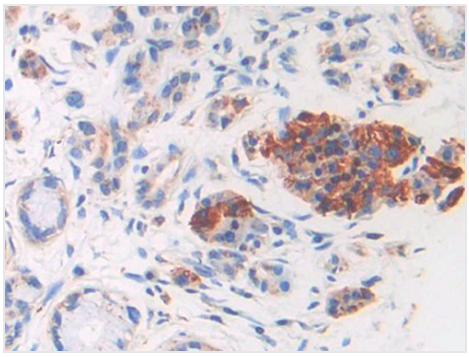
Immunohistochemistry (IHC) of anti-BNP antibody
DAB staining on IHCP;Sample: Human Prostate Tissue; Primary Ab: 30ug/ml Mouse AntiHuman BNP AntibodySecond Ab: 2ug/mL HRPLinked Caprine AntiMouse IgG Polyclonal Antibody(Catalog: SAA544Mu19)



Immunohistochemistry (IHC) of anti-BNP antibody
DAB staining on IHCP;Sample: Human Kidney Tissue; Primary Ab: 30ug/ml Mouse AntiHuman BNP AntibodySecond Ab: 2ug/mL HRPLinked Caprine AntiMouse IgG Polyclonal Antibody(Catalog: SAA544Mu19)



Immunohistochemistry (IHC) of anti-BNP antibody
DAB staining on IHCP;Sample: Human Stomach cancer Tissue; Primary Ab: 30ug/ml Mouse AntiHuman BNP AntibodySecond Ab: 2ug/mL HRPLinked Caprine AntiMouse IgG Polyclonal Antibody(Catalog: SAA544Mu19)



Immunohistochemistry (IHC) of anti-BNP antibody
DAB staining on IHCP;Sample: Human Pancreatic cancer Tissue; Primary Ab: 30ug/ml Mouse AntiHuman BNP AntibodySecond Ab: 2ug/mL HRPLinked Caprine AntiMouse IgG Polyclonal Antibody(Catalog: SAA544Mu19)

ADDITIONAL DETAILS

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

NCBI GI #	4505433
NCBI GeneID	4879
NCBI Accession #	NP_002512.1
UniProt Primary Accession #	P16860
UniProt Secondary Accession #	Q6FGY0; Q9P2Q7; B0ZBE9
UniProt Related Accession #	P16860
GenBank Nucleotide #	NM_002521.2
NCBI Official Full Name	natriuretic peptides B preproprotein
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; natriuretic protein; brain type natriuretic peptide; gamma-brain natriuretic peptide; natriuretic peptide precursor B
NCBI Summary for BNP	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. Mutations in this gene have been associated with postmenopausal osteoporosis. [provided by RefSeq, Jul 2008]

UniProt Comments for BNP	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 space; protein complex; extracellular region Molecular Function: diuretic hormone activity; hormone activity; receptor binding Biological Process: cGMP biosynthetic process; negative regulation of angiogenesis; cell surface receptor linked signal transduction; regulation of vasodilation; regulation of blood pressure; receptor guanylyl cyclase signaling pathway; regulation of vascular permeability; negative regulation of cell growth; regulation of blood vessel size; body fluid secretion
Research Articles on BNP	**1.** Serial evaluation of NT-proBNP levels can identify multiple sclerosis patients at high risk for mitoxantrone-induced cardiotoxicity.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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