

Datasheet: MCA2642

BATCH NUMBER 161115

Description:	MOUSE ANTI HUMAN BRAIN NATRIURETIC PEPTIDE
Specificity:	BRAIN NATRIURETIC PEPTIDE
Other names:	BNP
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	50E1
Isotype:	IgG1
Quantity:	0.2 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			
Immunoassay	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)

Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Human synthetic Brain natriuretic hormone.
External Database Links	<p>UniProt: P16860 Related reagents</p> <p>Entrez Gene: 4879 NPPB Related reagents</p>
RRID	AB_2155429
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the Sp2/0 myeloma cell line.
Specificity	<p>Mouse anti Human Brain Natriuretic Peptide antibody, clone 50E1 detects an epitope located at the C-terminal (amino acids 26-32) of the human brain natriuretic peptide (BNP), a secreted protein which is a member of the natriuretic peptide family. 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.</p> <p>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.</p> <p>Mouse anti Human Brain Natriuretic Peptide antibody, clone 50E1 also detects proBNP.</p>
Western Blotting	MCA2642 detects a band of approximately 4kDa when using synthetic BNP and a band of 15kDa when using recombinant proBNP.
References	<ol style="list-style-type: none"> Seferian, K.R. <i>et al.</i> (2007) The brain natriuretic peptide (BNP) precursor is the major immunoreactive form of BNP in patients with heart failure. Clin Chem. 53 (5): 866-73. Tamm, N.N. <i>et al.</i> (2008) Novel immunoassay for quantification of brain natriuretic peptide and its precursor in human blood. Clin Chem. 54 (9): 1511-8.
Further Reading	<ol style="list-style-type: none"> Clerico, A. <i>et al.</i> (2006) Clinical relevance of biological variation: the lesson of brain natriuretic peptide (BNP) and NT-proBNP assay. Clin Chem Lab Med. 44 (4): 366-78. Pfister, R. & Schneider, C.A. (2004) Natriuretic peptides BNP and NT-pro-BNP: established laboratory markers in clinical practice or just perspectives? Clin Chim Acta. 349 (1-2): 25-38.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may</p>

denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2642 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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