

Datasheet: MCA2642

Description:	MOUSE ANTI HUMAN BRAIN NATRIURETIC PEPTIDE
Specificity:	BRAIN NATRIURETIC PEPTIDE
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 from ascites
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% 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>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
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 (STAR13...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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