

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:	lgG1		
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 <u>www.bio-rad-antibodies.com/protocols</u>.

Yes	No	Not Determined	Suggested Dilution
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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	UniProt: <u>P16860</u> <u>Related reagents</u> Entrez Gene: <u>4879</u> NPPB <u>Related reagents</u>
RRID	AB_2155429
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the Sp2/0 myeloma cell line.
Specificity	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. 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.
	Mouse anti Human Brain Natriuretic Peptide antibody, clone 50E1 also detects proBNP.
Western Blotting	MCA2642 detects a band of approximately 4kDa when using synthetic BNP and a band of 15kDa when using recombinant proBNP.
References	 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. <u>Clin Chem. 53 (5): 866-73.</u> Tamm, N.N. <i>et al.</i> (2008) Novel immunoassay for quantification of brain natriuretic peptide and its precursor in human blood. <u>Clin Chem. 54 (9): 1511-8.</u>
Further Reading	 Clerico, A. <i>et al.</i> (2006) Clinical relevance of biological variation: the lesson of brain natriuretic peptide (BNP) and NT-proBNP assay. <u>Clin Chem Lab Med. 44 (4): 366-78.</u> Pfister, R. & Schneider, C.A. (2004) Natriuretic peptides BNP and NT-pro-BNP: established laboratory markers in clinical practice or just perspectives? <u>Clin Chim Acta.</u> <u>349 (1-2): 25-38.</u>
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may

	denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2642 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	RPE				
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>					
Goat Anti Mouse IgG (STAR76)	RPE				
Rabbit Anti Mouse IgG (STAR13)	HRP				
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>				
Goat Anti Mouse IgG (H/L) (STAR117)	<u>Alk. Phos., DyLight®488, DyLight®550,</u>				
	DyLight®650, DyLight®680, DyLight®800,				
	<u>FITC</u> , <u>HRP</u>				
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>				
Goat Anti Mouse IgG (STAR77)	HRP				
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP				
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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 'M367261:200529'

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