

Datasheet: MCA2641

**BATCH NUMBER 170263**

<b>Description:</b>	MOUSE ANTI HUMAN BNP PROHORMONE (N-TERMINAL)
<b>Specificity:</b>	BNP PROHORMONE (N-TERMINAL)
<b>Other names:</b>	NT-proBNP
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	18H5
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )

## Stabilisers

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**Approx. Protein Concentrations** IgG concentration 1.0 mg/ml

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**Immunogen** Amino acids 13-27 of NT-proBNP

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## External Database Links

**UniProt:**

[P16860](#)    [Related reagents](#)

**Entrez Gene:**

[4879](#)    NPPB    [Related reagents](#)

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**RRID** AB\_2236317

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**Fusion Partners** Spleen cells from immunized Balb/c mice were fused with cells of the Sp2/0 myeloma cell line

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**Specificity** **Mouse anti Human BNP Prohormone (N-Terminal) antibody, clone 18H5** detects the amino-terminal fragment of pro-brain natriuretic peptide (amino acids 13-20), also known as NT-proBNP, a cleavage product during the proteolytic activation of BNP. NT-proBNP is a secreted protein which is a member of the natriuretic peptide family, which is predominantly secreted from the cardiac ventricles in response to volume and pressure overload.

NT-proBNP is more stable than BNP in serum, and has become a useful biomarker of heart failure.

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**Western Blotting** MCA2641 detects a band of approximately 9kDa when using recombinant NT-proBNP

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**Further Reading**

1. Clerico, A. *et al.* (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.](#)
2. 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.](#)

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**Storage** 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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**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/MCA2641>

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight®800</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

### Recommended Negative Controls

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

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
'M395507:220504'

Printed on 29 Jan 2026

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