



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

MOUSE ANTI HUMAN BNP

With HRP-conjugated Secondary Antibody

Catalog No.	Species	Isotype
DS-MB-00128	Human	IgG1

Preparation

Preparation: Purified IgG prepared by affinity chromatography on Protein A

Immunogen: Human synthetic BNP.

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

Specificity

This product detects 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.

This product also detects proBNP.

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG - liquid

Buffer Solution: Phosphate buffered saline pH7.4

Approx. Protein Concentrations: IgG concentration 1.0mg/ml

Preservative Stabilizers: 0.09% Sodium Azide (NaN₃)

Storage

18 months from date of dispatch.

Store at 4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

Avoid repeated freezing and thawing as this may denature the antibody.

Centrifuge before opening to ensure complete recovery of vial contents.

The products are furnished for LABORATORY RESEARCH USE ONLY.

Not for diagnostic or therapeutic use.



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Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	•			
Western Blotting	•			
Immunohistology - frozen			•	
Immunohistology - paraffin			•	
Immunohistology - resin			•	
Immunoprecipitation			•	
Flow Cytometry			•	
Immunofluorescence staining			•	
Immunoassay	•			

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

Reference

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: 366-378.
2. Pfister, R. and Schneider, C.A. (2004) Natriuretic peptides BNP and NT-pro-BNP: established laboratory markers in clinical practice or just perspectives? Clin. Chim. Acta. 349: 25-38.

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