



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rabbit anti-C-type Natriuretic Peptide (CNP) antibody

Catalog No:
130-10012

Isotype:
Rabbit Ig G

Species:
Human

Accession No:
NP_077720

Description

Natriuretic peptides comprise a family of 3 structurally related molecules: atrial natriuretic peptide, brain natriuretic peptide, and C-type natriuretic peptide (CNP), encoded by a gene symbolized NPPC. These peptides possess potent natriuretic, diuretic, and vasodilating activities and are implicated in body fluid homeostasis and blood pressure control. Natriuretic peptide precursor C homolog of mouse C type (CNP), most strongly expressed in the brain, also expressed in vascular endothelial cells and other tissues, present at extremely low level in circulation, potentially playing a paracrine/autocrine role.

Applications

Table Summary of antibody applications and working conditions

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			1:40000(at least detecting 25ng/ml)
Western Blotting			#	
Enzyme Immunoassay(EIA)			#	
Immunohistology - paraffin			#	
Immunohistology - resin			#	
Immunoprecipitation			#	
Flow Cytometry			#	
Neutralization			#	

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

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Preparation

Immunogen was synthetic protein derived from Human CNP. This antibody was produced from a rabbit immunized with the immunogen. The IgG fraction was purified from rabbit serum followed by Protein A/G affinity chromatography.

Specificity

Rabbit anti-Human Natriuretic Peptide Precursor C antibody detected specifically the target contained in tested samples (Serum and tissue). Cross reactivity with mouse and rat CNP was not tested yet.

Reconstitution

Supplied as lyophilized and purified antibody originally containing PBS, without **Preservative Stabilizers**, liking Sodium Azide. ***It final concentration is indicated in shipping vial.*** Please avoid freeze-thaw cycles.

The antibody is stable for at least years from the data of receipt when stored at -20°C to -70°C . Reconstituted antibody (suggesting with sterile PBS) can also be aliquotted and stored frozen at -20°C to -70°C in a manual defrost freezer for months without detectable loss activity. Upon reconstitution, the antibody can be stored at 4°C for 1 month.

Storage

Store at -20°C , if not intended for use within a month, keep it at 4°C and minimize freezing and thawing when use.

Related product

RayBio® CNP EIA Kit for Serum, Plasma, Culture Supernatant and Cell Lysates (Cat# EIA-CNP-1)

Reference

Robert A Rose and Wayne R Giles, (2008) Natriuretic peptide C receptor signaling in the heart and vasculature. *J Physiol.*15;586 (Pt 2): 353–366

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