

For Research Use Only

NPPC Polyclonal antibody

Catalog Number: 29352-1-AP



Basic Information

Catalog Number: 29352-1-AP	GenBank Accession Number: NM_024409	Purification Method: Antigen affinity purification
Source: Rabbit	GeneID (NCBI): 4880	Recommended Dilutions: IHC: 1:50-1:500 IF-P: 1:50-1:500
Isotype: IgG	UNIPROT ID: P23582	
Immunogen Catalog Number: AG29609	Full Name: natriuretic peptide precursor C	
	Calculated MW: 13 kDa	

Applications

Tested Applications:
IHC, IF-P, ELISA

Species Specificity:
human, mouse, rat

Positive Controls:

IHC: rat heart tissue,

IF-P: mouse heart tissue,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

NPPC (C-type natriuretic peptide) is also named as CNP2, and belongs to the natriuretic peptide family. More recent studies have shown that in growing and preovulatory follicles, granulosa cells secrete into the follicular fluid, a C-type natriuretic peptide (NPPC, also known as CNP) capable of binding to cumulus cells membrane natriuretic peptide receptor 2 (NPR2, also known as guanylate cyclase B). The CNP/NPR2 complex, acting actively as guanylate cyclase, increases the concentration of cGMP both in cumulus cells and, indirectly, in the oocyte, maintaining meiosis arrest. The cAMP level is maintained due to the upstream activity type C natriuretic peptide (CNP, NPPC), produced by the granulosa cells, which is responsible for the production of cyclic guanosine monophosphate (cGMP) after binding to a specific NPR2 receptor (PMID: 35209923, PMID: 25183874, PMID: 20947764).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

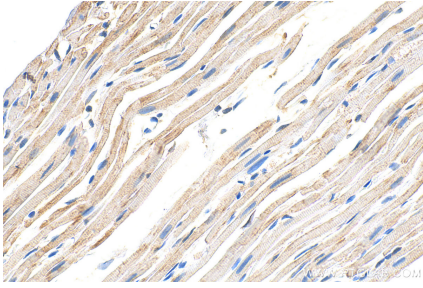
T: 4006900926

E: Proteintech-CN@ptglab.com

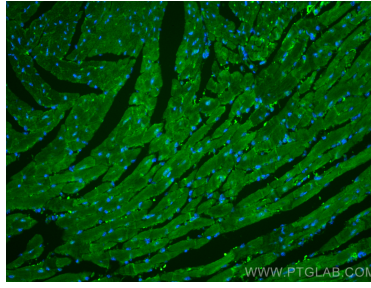
W: ptgcn.com

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Selected Validation Data



Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using 29352-1-AP (NPPC antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using NPPC antibody (29352-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).