

**Natriuretic Peptide Receptor A Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP8111A**

**Specification**

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**Natriuretic Peptide Receptor A Antibody (N-term) - Product Information**

Application	IHC-P,E
Primary Accession	<a href="#">P16066</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	1-30

**Natriuretic Peptide Receptor A Antibody (N-term) - Additional Information**

**Gene ID** 4881

**Other Names**

Atrial natriuretic peptide receptor 1, Atrial natriuretic peptide receptor type A, ANP-A, ANPR-A, NPR-A, Guanylate cyclase A, GC-A, NPR1, ANPRA

**Target/Specificity**

This Natriuretic Peptide Receptor A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human Natriuretic Peptide Receptor A.

**Dilution**

IHC-P~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Natriuretic Peptide Receptor A Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**Natriuretic Peptide Receptor A Antibody (N-term) - Protein Information**

**Name** NPR1 ([HGNC:7943](#))

**Synonyms** ANPRA

**Function** Receptor for the atrial natriuretic peptide NPPA/ANP and the brain natriuretic peptide NPPB/BNP which are potent vasoactive hormones playing a key role in cardiovascular homeostasis. Has guanylate cyclase activity upon binding of the ligand.

**Cellular Location**

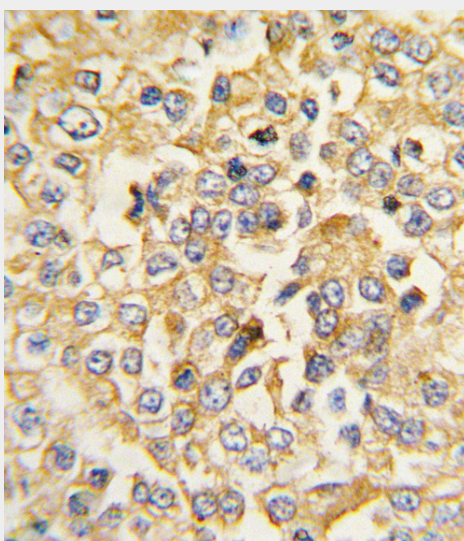
Membrane; Single-pass type I membrane protein.

**Natriuretic Peptide Receptor A Antibody (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Natriuretic Peptide Receptor A Antibody (N-term) - Images**



Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with Natriuretic Peptide Receptor A (NPR1/ANPA) antibody (N-term) (Cat. #AP8111a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

**Natriuretic Peptide Receptor A Antibody (N-term) - Background**

ANPA is a receptor for atrial natriuretic peptide. It exhibits guanylate cyclase activity on binding of ANP. There seem to be at least three ANP receptors: two with guanylate cyclase activity (ANPA and ANPB) and one (ANPC) which is probably responsible for the clearance of ANP from the circulation without a role in signal transduction. This Type I membrane protein belongs to the adenylyl cyclase class-4/guanylyl cyclase family and contains 1 protein kinase-like domain.

**Natriuretic Peptide Receptor A Antibody (N-term) - References**

Takahashi, Y., et al., Biochem. Biophys. Res. Commun. 246(3):736-739 (1998). Pardhasaradhi, K., et al., Cell. Mol. Neurobiol. 14(1):1-7 (1994). Lowe, D.G., et al., EMBO J. 8(5):1377-1384 (1989).

**Natriuretic Peptide Receptor A Antibody (N-term) - Citations**

- [Expression of natriuretic peptide-activated guanylate cyclases by cholinergic and dopaminergic amacrine cells of the rat retina.](#)