10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Natriuretic Peptide Receptor A Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP8111a

Specification

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

Primary Accession P16066

Natriuretic Peptide Receptor A Antibody (N-term) Blocking peptide - 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
The synthetic peptide sequence used to generate the antibody AP8111a was selected from the N-term region of human ANPA . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Natriuretic Peptide Receptor A Antibody (N-term) Blocking peptide - 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.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Natriuretic Peptide Receptor A Antibody (N-term) Blocking peptide - Protocols

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

- Blocking Peptides

Natriuretic Peptide Receptor A Antibody (N-term) Blocking peptide - Images

Natriuretic Peptide Receptor A Antibody (N-term) Blocking peptide - Background

ANPA is a receptor for atrial natriuretic peptide. It exhibits guanylate cyclase activity on binding of ANF. 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) Blocking peptide - 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) Blocking peptide - Citations

- Expression of natriuretic peptide-activated guanylate cyclases by cholinergic and dopaminergic amacrine cells of the rat retina.