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

Synthetic peptide
Catalog # BP8112a

Specification

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

Primary Accession P20594

Natriuretic Peptide Receptor B Antibody (N-term) Blocking peptide - Additional Information

Gene ID 4882

Other Names
Atrial natriuretic peptide receptor 2, Atrial natriuretic peptide receptor type B, ANP-B, ANPR-B, NPR-B, Guanylate cyclase B, GC-B, NPR2, ANPRB

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8112a was selected from the N-term region of human ANPB . 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 B Antibody (N-term) Blocking peptide - Protein Information

Name NPR2

Synonyms ANPRB

Function
Receptor for the C-type natriuretic peptide NPPC/CNP hormone. Has guanylate cyclase activity upon binding of its ligand. May play a role in the regulation of skeletal growth.

Cellular Location
Cell membrane; Single-pass type I membrane protein

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

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

- Blocking Peptides

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

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

ANPB (natriuretic peptide receptor B) is one of two integral membrane receptors for natriuretic peptides. Both ANPA and ANPB contain five functional domains: an extracellular ligand-binding domain, a single membrane-spanning region, and intracellularly a protein kinase homology domain), an helical hinge region involved in oligomerization, and a carboxyl-terminal guanylyl cyclase catalytic domain. ANPB is the primary receptor for C-type natriuretic peptide (CNP), which upon ligand binding exhibits greatly increased guanylyl cyclase activity.

Natriuretic Peptide Receptor B Antibody (N-term) Blocking peptide - References

van den Akker, F., J. Mol. Biol. 311(5):923-937 (2001).Hirsch, J.R., et al., J. Am. Soc. Nephrol. 10(3):472-480 (1999).Rehemudula, D., et al., Circ. Res. 84(5):605-610 (1999).Potter, L.R., et al., J. Biol. Chem. 273(25):15533-15539 (1998).Duda, T., et al., Biochemistry 32(6):1391-1395 (1993).

Natriuretic Peptide Receptor B Antibody (N-term) Blocking peptide - Citations

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