Antibodies

Data Sheet

HUMAN NATRIURETIC PEPTIDE RECEPTOR A [NPR-A] (aa 294-308)

ANTIBODY, POLYCLONAL

Catalog no.: AE1031.1 /AE 1031.2

Immunogen: Synthetic human NPR-A (aa 294-308) KLH conjugated (LKQLKHLAYEQFNFT)

Synonyms: Atrial natriuretic peptide receptor type A (ANPR-A, ANP-A), Guanylate cyclase A (GC-A)

Swiss-Prot No: P16066

Gene Information: Gene Name: NPR1, ANPRA

GeneID: 4881

Host: Rabbit

Matrix: Serum

Specificity: Human NPR-A; rat and mouse NPR-A

Contents: 20 µl / 100 µl (lyophilized)

Resuspend in 20 µl / 100 µl aqua bidest.

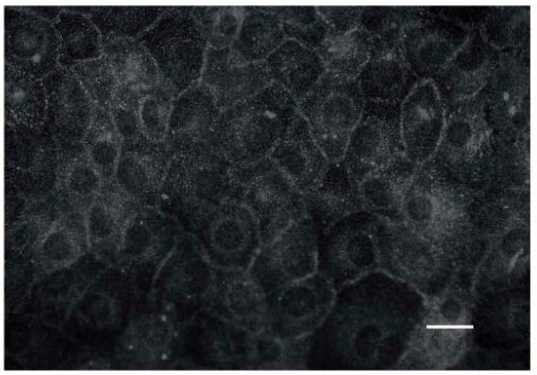

Figure 1: Immunocytochemistry image of NPR-A staining in cultured rat inner medullary collecting duct (IMCD) cells. The cells were grown on glass slides and fixed in 4% paraformaldehyde. The cells were incubated with AE1031 for 90 minutes, followed by an appropriate secondary antibody coupled to alexa 488. Scale bar = 20µm.

Klokkers J et al. (2009) Am J Physiol Renal Physiol 297: F693–F703

Known applications: Western Blot (1:1000-5000)[1], immunohistochemistry (paraffin sections, 1:4000; cryosections, 1:300)[1], immunocytochemistry (1:200)[2]

This antibody has not been tested for use in all applications. This does not necessarily exclude its use in non-tested procedures. The stated dilutions are recommendations only. End users should determine optimal dilutions in their system using appropriate negative/positive controls.

Store at: 2-8 °C (lyophilized); - 20 °C (dissolved)

Repeated thawing and freezing must be avoided

References:

1. Hirsch JR, Kruhoffer M, Adermann K, Heitland A, Maronde E, Meyer M, Forssmann WG, Herter P, Plenz G, Schlatter E (2001). Cellular localization, membrane distribution, and possible function of guanylyl cyclases A and 1 in collecting ducts of rat. *Cardiovasc Res.* **51**(3):553-561.

2. Klokkers J, Langehanenberg P, Kemper B, Kosmeier S, von Bally G, Riethmuller C, Wunder F, Sindic A, Pavenstadt H, Schlatter E, Edemir B (2009). Atrial natriuretic peptide and nitric oxide signaling antagonizes vasopressin-mediated water permeability in inner medullary collecting duct cells. *Am J Physiol Renal Physiol* **297**(3): F693-703.

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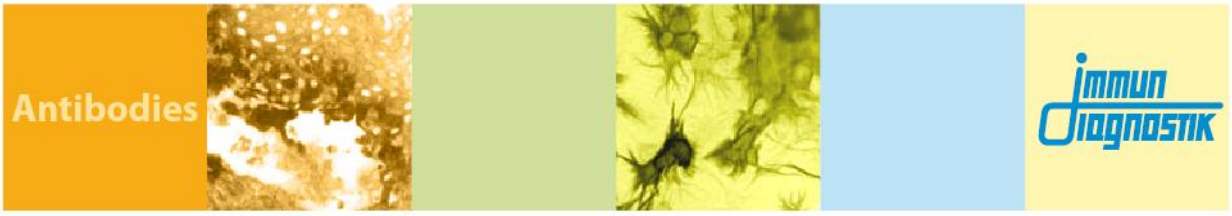

For research use only

Publishing research using AE1031? Please let us know so that we can cite your publication as a reference.

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