Product datasheet

Anti-Natriuretic Peptide Receptor A / GC-A antibody
ab14356

Overview

Product name: Anti-Natriuretic Peptide Receptor A / GC-A antibody
Description: Rabbit polyclonal to Natriuretic Peptide Receptor A / GC-A
Host species: Rabbit
Tested applications: Suitable for: WB, IHC-P, ICC, ICC/IF, Flow Cyt, IHC-Fr
Species reactivity: Reacts with: Rat, Human
Immunogen: Synthetic peptide corresponding to Human Natriuretic Peptide Receptor A/ GC-A aa 294-308 conjugated to keyhole limpet haemocyanin.
Sequence: LKQLKHLAYEQFNFT
(Peptide available as ab28437, ab49403)

General notes: Previously labelled as Natriuretic Peptide Receptor A.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Purity: Whole antiserum
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab14356 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
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.

Sequence similarities
Belongs to the adenylyl cyclase class-4/guanylyl cyclase family.
Contains 1 guanylate cyclase domain.
Contains 1 protein kinase domain.

Post-translational modifications
Phosphorylation of the protein kinase-like domain is required for full activation by ANP.

Cellular localization
Membrane.

Images
ICC/IF image of ab14356 stained MCF7 cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab14356, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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<td>1/4000.</td>
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<tr>
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<td></td>
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<td>ICC/IF</td>
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<tr>
<td>Flow Cyt</td>
<td></td>
<td>1/200. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.</td>
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<tr>
<td>IHC-Fr</td>
<td></td>
<td>1/300.</td>
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Target

Function
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Cellular localization
Membrane.
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