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

**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

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Storage instructions</td>
<td>Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.</td>
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<tr>
<td>Purity</td>
<td>Whole antiserum</td>
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<tr>
<td>Clonality</td>
<td>Polyclonal</td>
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<tr>
<td>Isotype</td>
<td>IgG</td>
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## 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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