Product datasheet

Anti-Natriuretic Peptide Receptor A antibody ab14356

Overview

Product name: Anti-Natriuretic Peptide Receptor A antibody
Description: Rabbit polyclonal to Natriuretic Peptide Receptor 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: LKQLKHLAYEQFNFT conjugated to KLH, corresponding to amino acids 294-308 of Human Natriuretic Peptide Receptor A (Peptide available as ab28437.)

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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>WB</td>
<td>⭐⭐⭐⭐⭐</td>
<td>1/5000. Predicted molecular weight: 118 kDa. Can be blocked with Human Natriuretic Peptide Receptor A peptide (ab28437).</td>
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<tr>
<td>IHC-P</td>
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<td>1/4000.</td>
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**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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