info@arigobio.com

# ARG54865
# anti-Natriuretic Peptide Receptor A antibody

Package: 100 µl
Store at: -20°C

## Summary

| | |
|---|---|
| Product Description | Rabbit Polyclonal antibody recognizes Natriuretic Peptide Receptor A |
| Tested Reactivity | Hu, Ms, Rat |
| Tested Application | IHC-P |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | Natriuretic Peptide Receptor A |
| Species | Human |
| Immunogen | KLH-conjugated synthetic peptide corresponding to aa. 1-30 (N-terminus) of Human Natriuretic Peptide Receptor A. |
| Conjugation | Un-conjugated |
| Alternate Names | ANPa; GUCY2A; GC-A; ANPRA; Atrial natriuretic peptide receptor 1; Guanylate cyclase A; NPR-A; NPRA; GUC2A; Atrial natriuretic peptide receptor type A; EC 4.6.1.2; ANP-A; ANPR-A |

## Application Instructions

Application table

| Application | Dilution |
|---|---|
| IHC-P | Assay-dependent |

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

## Properties

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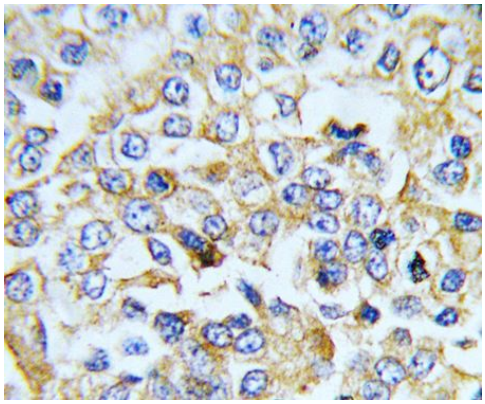
|---|---|
| Form | Liquid |
| Purification | Purification with Protein G. |
| Buffer | PBS and 0.09% (W/V) Sodium azide |
| Preservative | 0.09% (W/V) Sodium azide |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

## Bioinformation

| | |
|---|---|
| Gene Symbol | NPR1 |
| Gene Full Name | natriuretic peptide receptor 1 |
| Background | Guanylyl cyclases, catalyzing the production of cGMP from GTP, are classified as soluble and membrane forms (Garbers and Lowe, 1994 [PubMed 7982997]). The membrane guanylyl cyclases, often termed guanylyl cyclases A through F, form a family of cell-surface receptors with a similar topographic structure: an extracellular ligand-binding domain, a single membrane-spanning domain, and an intracellular region that contains a protein kinase-like domain and a cyclase catalytic domain. GC-A and GC-B function as receptors for natriuretic peptides; they are also referred to as atrial natriuretic peptide receptor A (NPR1) and type B (NPR2; MIM 108961). Also see NPR3 (MIM 108962), which encodes a protein with only the ligand-binding transmembrane and 37-amino acid cytoplasmic domains. NPR1 is a membrane-bound guanylate cyclase that serves as the receptor for both atrial and brain natriuretic peptides (ANP (MIM 108780) and BNP (MIM 600295), respectively).[supplied by OMIM, May 2009] |
| 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. [UniProt] |
| Research Area | Cell Biology and Cellular Response antibody; Signaling Transduction antibody |
| Calculated Mw | 119 kDa |
| PTM | Phosphorylation of the protein kinase-like domain is required for full activation by ANP. |
| Cellular Localization | Membrane; Single-pass type I membrane protein |

## Images



ARG54865 anti-Natriuretic Peptide Receptor A antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human breast carcinoma tissue stained with ARG54865 anti-Natriuretic Peptide Receptor A antibody.