

# ARG10814 anti-PGCB antibody

Package: 50 μg Store at: -20°C

# Summary

| Product Description | Rabbit Polyclonal antibody recognizes PGCB  |
|---------------------|---|
| Tested Reactivity   | Hu, Ms, Rat   |
| Tested Application  | Confocal, Dot, ELISA, ICC/IF, IHC-P, IP, WB   |
| Host                | Rabbit  |
| Clonality           | Polyclonal  |
| lsotype             | lgG   |
| Target Name         | PGCB  |
| Species             | Human   |
| Immunogen           | Synthetic peptide around the C-terminus of PGCB protein.  |
| Conjugation         | Un-conjugated   |
| Alternate Names     | ANPRB; AMDM; GUCY2B; ECDM; Atrial natriuretic peptide receptor 2; NPR-B; SNSK; NPRBi; Guanylate cyclase B; NPRB; ANPb; Atrial natriuretic peptide receptor type B; GUC2B; EC 4.6.1.2; GC-B; ANPR-B; ANP-B |

## **Application Instructions**

| Application table | Application  | Dilution   |
|-------------------|--|--|
|                   | Confocal   | 1:200  |
|                   | Dot  | 1:10000  |
|                   | ELISA  | 1:10000  |
|                   | ICC/IF   | 1:50 - 1:200   |
|                   | IHC-P  | 1:200  |
|                   | IP   | 1:200  |
|                   | WB   | 1:500  |
| Application Note  | * The dilutions indicate recomme<br>should be determined by the scie | ended starting dilutions and the optimal dilutions or concentrations entist. |

### **Properties**

| Form         | Liquid  |
|--------------|---|
| Purification | Affinity purified.  |
| Buffer       | Tris-Glycine Buffer (pH 7.4 - 7.8), Hepes, 0.02% Sodium azide, 30% Glycerol and 0.5% BSA. |
| Preservative | 0.02% Sodium azide  |

| Stabilizer          | 30% Glycerol and 0.5% BSA   |
|---------------------|---|
| Concentration       | 0.5 mg/ml   |
| 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. 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    | NPR2  |
|----------------|---|
| Gene Full Name | natriuretic peptide receptor 2  |
| Background     | This gene encodes natriuretic peptide receptor B, one of two integral membrane receptors for natriuretic peptides. Both NPR1 and NPR2 contain five functional domains: an extracellular ligand-binding domain, a single membrane-spanning region, and intracellularly a protein kinase homology domain, a helical hinge region involved in oligomerization, and a carboxyl-terminal guanylyl cyclase catalytic domain. The protein is the primary receptor for C-type natriuretic peptide (CNP), which upon ligand binding exhibits greatly increased guanylyl cyclase activity. Mutations in this gene are the cause of acromesomelic dysplasia Maroteaux type. [provided by RefSeq, Jul 2008] |
| Function       | Receptor for the C-type natriuretic peptide NPPC/CNP hormone. Has guanylate cyclase activity upon binding of its ligand. May play a role in the regulation of skeletal growth. [UniProt]  |
| Calculated Mw  | 117 kDa   |
| PTM            | Phosphorylated (PubMed:26980729). Phosphorylation of the protein kinase-like domain is required for full activation by CNP (By similarity). Glycosylated.   |

### Images



#### ARG10814 anti-PGCB antibody IHC image

Immunohistochemistry: Thin section of Mouse nose tissue stained with ARG10814 anti-PGCB antibody (red). Green: Grueneberg ganglion neurons. Blue: Nuclei. Staining is found on blood vessel walls.

#### ARG10814 anti-PGCB antibody WB image

Western blot: Recombinant PGCB protein stained with ARG10814 anti-PGCB antibody at 1:500 dilution.