

Recombinant GFRA1 Monoclonal Antibody

catalog number: **AN300488P**

Note: Centrifuge before opening to ensure complete recovery of vial contents.

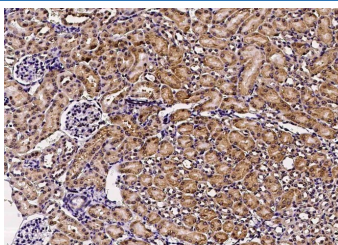
Description

| | |
|---------------------|---------------------------------|
| Reactivity | Mouse |
| Immunogen | Recombinant Mouse GFRA1 protein |
| Host | Rabbit |
| Isotype | IgG |
| Clone | 7C3 |
| Purification | Protein A |
| Buffer | 0.2 µm filtered solution in PBS |

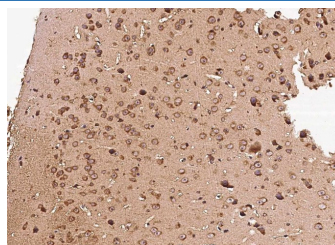
Applications Recommended Dilution

| | |
|--------------|-------------|
| IHC-P | 1:100-1:500 |
|--------------|-------------|

Data



Immunohistochemistry of paraffin-embedded mouse kidney using GFRA1 Monoclonal Antibody at dilution of 1:200.



Immunohistochemistry of paraffin-embedded mouse brain using GFRA1 Monoclonal Antibody at dilution of 1:200.

Preparation & Storage

| | |
|-----------------|--|
| Storage | This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles. |
| Shipping | Ice bag |

Background

Glial cell line derived neurotrophic factor (GDNF) Family Receptor Alpha 1 (GFRA1) is a member of the GDNF receptor family. It is a glycosylphosphatidylinositol (GPI)-linked cell surface receptor for both GDNF and NTN, and mediates activation of the RET tyrosine kinase receptor. GFRA1 is a potent survival factor for central and peripheral neurons, and is essential for the development of kidneys and the enteric nervous system. Glial cell line-derived neurotrophic factor (GDNF) and neurturin (NTN) are its binding ligand which are two structurally related, potent neurotrophic factors that play key roles in the control of neuron survival and differentiation. GDNF promotes the formation of a physical complex between GFRA/GDNFRα and the orphan tyrosin kinase receptor Ret, thereby inducing its tyrosine phosphorylation. The RET is a receptor tyrosine kinase representing the signal-transducing molecule of a multisubunit surface receptor complex for the GDNF, in which GFRA/GDNFRα acts as the ligand-binding component. GDNF, a distantly related member of the transforming growth factor-β (TGF-β) superfamily, and its receptor components: GFRA1, Ret and neural cell adhesion molecule (NCAM) have been recently reported to be expressed in the testis and to be involved in the proliferation regulation of immature Sertoli cells.

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