

# Anti-GFR $\alpha$ -1 Antibody

## **ORDERING INFORMATION**

Catalog No.: 1133 Size: 100 ug IgG in PBS, pH 7.4, purified by immunoaffinity chroma-tography.

## BACKGROUND

Glial cell line-derived neurotrophic factor (GDNF) is a potent survival factor for central and peripheral neurons and is essential for the development of the kidney and the enteric nervous system. Physiological responses to GDNF require the presence of a novel glycosylphosphatidylinositol linked protein, GDNFR $\alpha$ , a cell surface receptor for GDNF. The cDNAs encoding GDNFR $\alpha$  from human, rat, chicken, and mouse have been cloned. GDNFR $\alpha$  has also been referred to as GFR $\alpha$ -1, Ret ligand 1 (RETL1) and TGFβ-related neurotrophic factor receptor 1 (TmR1). GFR $\alpha$ -1 binds GDNF specifically and mediates activation of the Ret protein tyrosine kinase (PTK). Thus, GDNF, GFR $\alpha$ , and the Ret PTK form a complex to transmit the GDNF signal and to mediate GDNF function. GFR $\alpha$ -1 has been identified in brain, liver, kidney, and spleen.

# SPECIFICATION SUMMARY

**Antigen:** Peptide corresponding to aa 369-382 of human GFR $\alpha$ -1. This peptide sequence is identical to those of mouse and rat.

Host Species:RabbitStabilizers:NonePreservatives:0.02% sodium azide.

#### **SPECIFICITY**

This antibody recognizes human, mouse, and rat GFR $\alpha$ -1 (approx. 50 kD).

#### **APPLICATIONS**

*Immunoblotting*: use at 1:500 dilution.

## **DILUTION INSTRUCTIONS**

Dilute in PBS or medium which is identical to that used in the assay system.

## **STORAGE AND STABILITY**

This antibody is stable for at least one (1) year at  $-20^{\circ}$ C. Avoid multiple freeze-thaw cycles.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.

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