

**Product:** Anti-GFR $\alpha$ -1 (GDNFR $\alpha$ , RETL1, TmR1)  
**Catalog #:** 12-1133  
**Amount:** 25 mg

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**CATEGORY:**  
**DESCRIPTION:**

**Rabbit** Polyclonal  
Physiological responses to GDNF require the presence of a novel glycosylphosphatidylinositol linked protein GDNFR $\alpha$ , which is a cell surface receptor for GDNF. The cDNAs encoding GDNFR $\alpha$  from human, rat, chicken and mouse have been cloned recently. GDNFR $\alpha$  was also termed Ret Ligand 1 (RETL1) or TGF- $\beta$ -related neurotrophic factor receptor 1 (TmR1) and nominated as GFR $\alpha$ -1 recently. 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 transduce GDNF signal and to mediate GDNF function.  
**FORM:** Purified IgG in PBS containing 0.02% Sodium azide  
**IMMUNOGEN:** A peptide corresponding to amino acids 369 to 382 of human GFR $\alpha$ -1. The amino acid sequence of immunogenic peptide is identical to those of mouse and rat.  
**APPLICATION:** Immunoblotting (dilution 1:500)  
**REACTIVITY/SPECIES:** Human, mouse and rat  
**RECOMMENDED FOR POSITIVE CONTROL:**

Crude cell membrane fraction of human brain, kidney, liver and spleen.

**STORAGE:** 2-8°C for immediate use, or at -20°C (aliquot)

**12-1133P Blocking peptide available**

**REFERENCES:**

Sanicola, M. et al. (1997) Proc Natl Acad Sci USA **94**: 6238-6243  
Buj-Bello, A. et al. (1997) Nature **387**:721-724  
Dey, BK. et al. (1998) Neuroreport**9**: 37-42  
Baloh, RH. et al. (1997) Neuron **18**: 793-802  
Nomenclature Committee. Nomenclature of GPI-linked receptors for the GDNF ligand family. GFR $\alpha$ . Neuron (1997); 19: 485

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