

**Product:** Anti-GFR $\alpha$ -3 (GDNFRg, RETL2, TmR2, NTNRA )  
**Catalog #:** 12-1137  
**Amount:** 25 mg

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

**Rabbit** Polyclonal

A new member of the GDNF family was recently identified and designated persephin. Physiological responses to these neurotrophic factors require two receptor subunits, the novel glycosylphosphatidylinositol linked protein GFR $\alpha$  and Ret receptor tyrosine kinase GFR $\beta$ . Following the findings of GFR $\alpha$ -1 and -2, a novel receptor in GFR $\alpha$  family was identified recently from human and mouse and designated GFR $\alpha$ -3.

GFR $\alpha$ -3 binds persephin, thus, persephin, GFR $\alpha$ -3, and Ret PTK form a complex to transduce persephin signal and to mediate persephin function.

**FORM:**  
**IMMUNOGEN:**

Purified IgG in PBS containing 0.02% Sodium azide  
A peptide corresponding to amino acids 347 to 360 of murine GFR $\alpha$ -3.

**APPLICATION:**  
**REACTIVITY/SPECIES:**  
**RECOMMENDED FOR**  
**POSITIVE CONTROL:**  
**STORAGE:**

Immunoblotting (min. dilution 1:500)

Human, mouse

Murine kidney, liver or heart tissue lysates  
2-8°C for immediate use, or at -20°C (aliquot)

**12-1137P Blocking peptide available**

**REFERENCES:**

Milbrandt, J. et al. (1998) *Neuron* **20**: 245-253  
Jing, S. et al. (1997) *J. Biol Chem* **272**: 33111-33117  
Worby, CA. et al. (1998) *J. Biol Chem* **273**: 3502-3508  
Neveilhan, P. et al. (1998) *Proc Natl Acad Sci USA* **95**: 1295-1300  
Nomoto, S. et al. (1998) *Biochem Biophys Res Commun* **244**: 849-853  
Baloh, RH. et al. (1997) *Neuron* **18**: 793-802

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