**GFRα-1 (C-20): sc-6157**

**BACKGROUND**
Gial cell line-derived neurotrophic factor (GDNF) and the related neurotrophic factor neurturin (NTN) are potent survival factors for central and peripheral neurons. GDNF is a glycosylated, disulfide-bonded homodimer that is distantly related to the TGFβ superfamily of growth factors. Three receptors for these factors, GFRα-1 (also designated GDFNR-α, RETL1 or TrnR-1), GFRα-2 (also designated GDFNR-β, RETL2, NTN-α or TrnR-2) and GFRα-3 have been identified. The receptors do not contain transmembrane domains and are associated to the cell membrane by glycosyl-phosphoinositol linkage. Both GFRα-1 and GFRα-2 have been shown to mediate the GDNF-dependent and NTN-dependent phosphorylation and activation of the tyrosine kinase Ret. GFRα-3 is expressed only during development.

**CHROMOSOMAL LOCATION**
Genetic locus: GFRα1 (human) mapping to 10q25.3; Gfra1 (mouse) mapping to 19D2.

**SOURCE**
GFRα-1 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of GFRα-1 of rat origin.

**PRODUCT**
Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-6157 P (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**
GFRα-1 (C-20) is recommended for detection of GFRα-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

GFRα-1 (C-20) is also recommended for detection of GFRα-1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for GFRα-1 siRNA (h): sc-35469, GFRα-1 siRNA (m): sc-35470, GFRα-1 shRNA Plasmid (h): sc-35469-SH, GFRα-1 shRNA Plasmid (m): sc-35470-SH, GFRα-1 shRNA (h) Lentiviral Particles: sc-35469-V and GFRα-1 shRNA (m) Lentiviral Particles: sc-35470-V.

Molecular Weight of GFRα-1 isoforms: 47/53 kDa.

Molecular Weight of glycosylated GFRα-1: 57-88 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

**STORAGE**
Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**
For research use only, not for use in diagnostic procedures.

**SELECT PRODUCT CITATIONS**

**PROTOCOLS**
See our web site at www.scbt.com or our catalog for detailed protocols and support products.