

# GFR $\alpha$ -3 (h3): 293T Lysate: sc-176344

## BACKGROUND

Glial 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 TGF $\beta$  superfamily of growth factors. Three receptors for these factors, GFR $\alpha$ -1 (also designated GDNFR- $\alpha$ , RETL1 or TrnR-1), GFR $\alpha$ -2 (also designated GDNFR- $\beta$ , RETL2, NTN- $\alpha$  or TrnR-2) and GFR $\alpha$ -3 have been identified. The receptors do not contain transmembrane domains and are attached to the cell membrane by glycosyl-phosphoinositol linkage. Both GFR $\alpha$ -1 and GFR $\alpha$ -2 have been shown to mediate the GDNF-dependent and NTN-dependent phosphorylation and activation of the tyrosine kinase Ret. GFR $\alpha$ -3 is expressed only during development.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: GFRA3 (human) mapping to 5q31.2.

## PRODUCT

GFR $\alpha$ -3 (h3): 293T Lysate represents a lysate of human GFR $\alpha$ -3 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

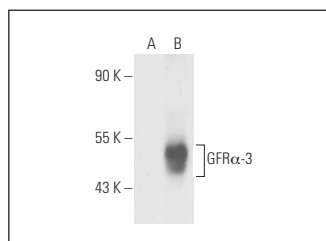
## APPLICATIONS

GFR $\alpha$ -3 (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive GFR $\alpha$ -3 antibodies. Recommended use: 10-20  $\mu$ l per lane.

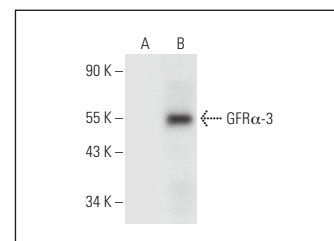
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

GFR $\alpha$ -3 (J135): sc-74047 is recommended as a positive control antibody for Western Blot analysis of enhanced human GFR $\alpha$ -3 expression in GFR $\alpha$ -3 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

## DATA



GFR $\alpha$ -3 (J135): sc-74047. Western blot analysis of GFR $\alpha$ -3 expression in non-transfected: sc-117752 (A) and human GFR $\alpha$ -3 transfected: sc-176344 (B) 293T whole cell lysates.



GFR $\alpha$ -3 (C-3): sc-398618. Western blot analysis of GFR $\alpha$ -3 expression in non-transfected: sc-117752 (A) and human GFR $\alpha$ -3 transfected: sc-176344 (B) 293T whole cell lysates.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.