

GIGYF2 (C-13): sc-164469

BACKGROUND

GIGYF2 (GRB10 interacting GYF protein 2), also known as GYF2, PERQ2, PERQ3, PARK11 or TNRC15, is a 1,299 amino acid protein that may be involved in the regulation of tyrosine kinase receptor signaling, including IGF-I and Insulin receptors. Belonging to the PERQ family of proteins, GIGYF2 contains long stretches of glutamine and glutamic acid residues. Mutations in the gene encoding GIGYF2 are the cause of Parkinson disease type 11 (PARK11), which is characterized by bradykinesia, resting tremor, muscular rigidity and postural instability. Parkinson's disease involves the loss of dopaminergic neurons in the substantia nigra and the presence of Lewy bodies (intraneuronal accumulations of aggregated proteins), in surviving neurons in various areas of the brain. PARK11 may show age-dependent or reduced penetrance. GIGYF2 exists as two alternatively spliced isoforms.

REFERENCES

1. Lautier, C., et al. 2008. Mutations in the GIGYF2 (TNRC15) gene at the PARK11 locus in familial Parkinson disease. *Am. J. Hum. Genet.* 82: 822-833.
2. Bonifati, V. 2009. Is GIGYF2 the defective gene at the PARK11 locus? *Curr. Neurol. Neurosci. Rep.* 9: 185-187.
3. Bras, J., et al. 2009. Lack of replication of association between GIGYF2 variants and Parkinson disease. *Hum. Mol. Genet.* 18: 341-346.
4. Sutherland, G.T., et al. 2009. Haplotype analysis of the PARK 11 gene, GIGYF2, in sporadic Parkinson's disease. *Mov. Disord.* 24: 449-452.
5. Lesage, S., et al. 2009. Follow-up study of the GIGYF2 gene in French families with Parkinson's disease. *Neurobiol. Aging* 31: 1069-1071.
6. Meeus, B., et al. 2009. GIGYF2 in Parkinson's disease: Innocent until proven otherwise. *Neurobiol. Aging* 31: 1072-1074.

CHROMOSOMAL LOCATION

Genetic locus: GIGYF2 (human) mapping to 2q37.1; Gygf2 (mouse) mapping to 1 D.

SOURCE

GIGYF2 (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of GIGYF2 of human 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-164469 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

GIGYF2 (C-13) is recommended for detection of GIGYF2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

Suitable for use as control antibody for GIGYF2 siRNA (h): sc-94610, GIGYF2 siRNA (m): sc-145397, GIGYF2 shRNA Plasmid (h): sc-94610-SH, GIGYF2 shRNA Plasmid (m): sc-145397-SH, GIGYF2 shRNA (h) Lentiviral Particles: sc-94610-V and GIGYF2 shRNA (m) Lentiviral Particles: sc-145397-V.

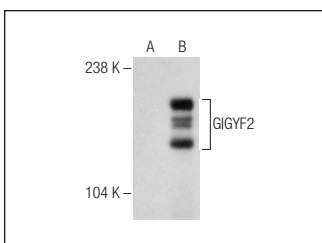
Molecular Weight of GIGYF2: 150 kDa.

Positive Controls: GIGYF2 (h): 293T Lysate: sc-177283.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



GIGYF2 (C-13): sc-164469. Western blot analysis of GIGYF2 expression in non-transfected: sc-117752 (A) and human GIGYF2 transfected: sc-177283 (B) 293T whole cell lysates.

PROTOCOLS

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

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Try **GIGYF2 (A-12): sc-393918** or **GIGYF2 (G-5): sc-514546**, our highly recommended monoclonal alternatives to GIGYF2 (C-13).