GIGYF2 (I-16): sc-164470



The Power to Question

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

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- 3. Bras, J., et al. 2009. Lack of replication of association between GIGYF2 variants and Parkinson disease. Hum. Mol. Genet. 18: 341-346.
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- 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.
- Meeus, B., et al. 2009. GIGYF2 in Parkinson's disease: Innocent until proven otherwise. Neurobiol. Aging. 31: 1072-1074.
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CHROMOSOMAL LOCATION

Genetic locus: GIGYF2 (human) mapping to 2q37.1; Gigyf2 (mouse) mapping to 1 D.

SOURCE

GIGYF2 (I-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of GIGYF2 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-164470 P, (100 μ g 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.

APPLICATIONS

GIGYF2 (I-16) 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 μ g per 100-500 μ g 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).

GIGYF2 (I-16) is also recommended for detection of GIGYF2 in additional species, including equine, canine, bovine and porcine.

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.

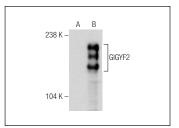
Molecular Weight of GIGYF2: 150 kDa.

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 (I-16): sc-164470. Western blot analysis of GIGYF2 expression in non-transfected: sc-117752 (A) and human GIGYF2 transfected: sc-177283 (B) 293T whole cell I vsates.

RESEARCH USE

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



Try GIGYF2 (A-12): sc-393918 or GIGYF2 (G-5): sc-514546, our highly recommended monoclonal alternatives to GIGYF2 (I-16).