GIGYF2 (I-16): sc-164470

BACKGROUND

GIGYF2 (GRB10 interacting GYF protein 2), also known as GYF2, PERQ2, PERO3, 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


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 IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

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), 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.

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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2021 (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.

STORAGE

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

PROTOCOLS

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

RESEARCH USE

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