

## C22orf36 (G-14): sc-86343

### BACKGROUND

C22orf36 (chromosome 22 open reading frame 36), also known as MGC-131773, is a 315 amino acid protein that contains two LRR (leucine-rich) repeats and exists as two alternatively spliced isoforms. C22orf36 is encoded by a gene located on human chromosome 22, which contains over 500 genes and about 49 million bases. As the second smallest human chromosome, chromosome 22 contains a wide variety of genes with numerous functions. Phelan-McDermid syndrome, Neurofibromatosis type 2 and autism are associated with chromosome 22. A schizophrenia susceptibility locus has been identified on chromosome 22 and studies show that 22q11 deletion symptoms include a high incidence of schizophrenia. Translocations between chromosomes 9 and 22 may lead to the formation of the Philadelphia Chromosome and the subsequent production of the novel fusion protein, BCR-Abl, a potent cell proliferation activator found in several types of leukemia.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: C22orf36 (human) mapping to 22q11.23.

### SOURCE

C22orf36 (G-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of C22orf36 of human origin.

### PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-86343 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

C22orf36 (G-14) is recommended for detection of C22orf36 of 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 C22orf36 siRNA (h): sc-72764, C22orf36 shRNA Plasmid (h): sc-72764-SH and C22orf36 shRNA (h) Lentiviral Particles: sc-72764-V.

Molecular Weight of C22orf36: 35/17 kDa.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### 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.

### PROTOCOLS

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