

C22orf9 (A-20): sc-86345

BACKGROUND

C22orf9 (chromosome 22 open reading frame 9) is a 404 amino acid protein that exists as 3 alternatively spliced isoforms and 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 22q13.31 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.

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CHROMOSOMAL LOCATION

Genetic locus: KIAA0930 (human) mapping to 22q13.31; 5031439G07Rik (mouse) mapping to 15 E2.

SOURCE

C22orf9 (A-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of C22orf9 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-86345 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

C22orf9 (A-20) is recommended for detection of C22orf9 of human origin, 5031439G07Rik of mouse origin and the corresponding rat homolog 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).

C22orf9 (A-20) is also recommended for detection of C22orf9 in additional species, including bovine and porcine.

Suitable for use as control antibody for C22orf9 siRNA (h): sc-72766, 5031439G07Rik siRNA (m): sc-140339, C22orf9 shRNA Plasmid (h): sc-72766-SH, 5031439G07Rik shRNA Plasmid (m): sc-140339-SH, C22orf9 shRNA (h) Lentiviral Particles: sc-72766-V and 5031439G07Rik shRNA (m) Lentiviral Particles: sc-140339-V.

Molecular Weight of C22orf9: 46 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 or our catalog for detailed protocols and support products.