

LOC553158 (K-14): sc-86581

BACKGROUND

The gene encoding human LOC553158, also known as PRR5-ARHGAP8 fusion protein, maps to chromosome 22, which houses over 500 genes and is the second smallest human chromosome. Mutations in several of the genes that map to chromosome 22 are involved in the development of Phelan-McDermid syndrome, neurofibromatosis type 2, autism and schizophrenia. Additionally, 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 leukemias. The LOC553158 gene product has been provisionally designated LOC553158 pending further characterization.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PRR5-ARHGAP8 (human) mapping to 22q13.31; Arhgap8 (mouse) mapping to 15 E2.

SOURCE

LOC553158 (K-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of LOC553158 of human origin.

STORAGE

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

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-86581 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LOC553158 (K-14) is recommended for detection of LOC553158 of human origin and ARHGAP8 of mouse and rat 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).

LOC553158 (K-14) is also recommended for detection of LOC553158 in additional species of equine, canine and porcine.

Suitable for use as control antibody for LOC553158 siRNA (h): sc-75499, ARHGAP8 siRNA (m): sc-141219, LOC553158 shRNA Plasmid (h): sc-75499-SH, ARHGAP8 shRNA Plasmid (m): sc-141219-SH, LOC553158 shRNA (h) Lentiviral Particles: sc-75499-V and ARHGAP8 shRNA (m) Lentiviral Particles: sc-141219-V.

Molecular Weight of LOC553158: 54 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.

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.