

IRGQ1 (C-14): sc-168204

BACKGROUND

IRGQ1 (immunity-related GTPase family Q protein), also known as FKSG27, is a 623 amino acid protein that is encoded by a gene mapping to human chromosome 19q13.31 and mouse chromosome 7 A3. Consisting of approximately 63 million bases with over 1,400 genes, chromosome 19 makes up over 2% of human genomic DNA. Chromosome 19 includes a diversity of interesting genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin superfamily members including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG families, and Fc α receptors. Key genes for eye color and hair color also map to chromosome 19. Peutz-Jeghers syndrome, spinocerebellar ataxia type 6, the stroke disorder CADASIL, hypercholesterolemia and insulin-dependent diabetes have been linked to chromosome 19. Translocations with chromosome 19 and chromosome 14 can be seen in some lymphoproliferative disorders and typically involve the proto-oncogene BCL3.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: IRGQ (human) mapping to 19q13.31; Irgq (mouse) mapping to 7 A3.

SOURCE

IRGQ1 (C-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of IRGQ1 of human origin.

RESEARCH USE

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

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-168204 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

IRGQ1 (C-14) is recommended for detection of IRGQ1 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); non cross-reactive with IRGC1 or IRGM.

IRGQ1 (C-14) is also recommended for detection of IRGQ1 in additional species, including canine.

Suitable for use as control antibody for IRGQ1 siRNA (h): sc-97462, IRGQ1 siRNA (m): sc-146289, IRGQ1 shRNA Plasmid (h): sc-97462-SH, IRGQ1 shRNA Plasmid (m): sc-146289-SH, IRGQ1 shRNA (h) Lentiviral Particles: sc-97462-V and IRGQ1 shRNA (m) Lentiviral Particles: sc-146289-V.

Molecular Weight of IRGQ1: 63 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-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.

STORAGE

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

PROTOCOLS

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