

GRAMD1A (C-17): sc-247076

BACKGROUND

GRAMD1A (GRAM domain containing 1A) is a 724 amino acid single-pass membrane protein that contains one GRAM domain and exists as 3 alternatively spliced isoforms. The gene encoding GRAMD1A maps to human chromosome 19q13.11. Consisting of around 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 family, 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.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GRAMD1A (human) mapping to 19q13.11; Gramd1a (mouse) mapping to 7 B1.

SOURCE

GRAMD1A (C-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of GRAMD1A of human origin.

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-247076 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GRAMD1A (C-17) is recommended for detection of GRAMD1A 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 GRAMD1B or GRAMD1C.

GRAMD1A (C-17) is also recommended for detection of GRAMD1A in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for GRAMD1A siRNA (h): sc-97859, GRAMD1A siRNA (m): sc-145749, GRAMD1A shRNA Plasmid (h): sc-97859-SH, GRAMD1A shRNA Plasmid (m): sc-145749-SH, GRAMD1A shRNA (h) Lentiviral Particles: sc-97859-V and GRAMD1A shRNA (m) Lentiviral Particles: sc-145749-V.

Molecular Weight of GRAMD1A isoforms: 81/79/80 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.

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.