# R3HDM4 (D-20): sc-242103



The Power to Question

### **BACKGROUND**

C19orf22 (chromosome 19 open reading frame 22) is a 268 amino acid nuclear protein containing one R3H domain and is encoded by a gene located on human chromosome 19. Chromosome 19 consists of approximately 63 million bases and 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 lg-like receptors, a number of ICAMs, the CEACAM and PSG family, and Fc $\alpha$  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: R3HDM4 (human) mapping to 19p13.3; C030046I01Rik (mouse) mapping to 10 C1.

## SOURCE

R3HDM4 (D-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of R3HDM4 of human origin.

#### **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-242103 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### **APPLICATIONS**

R3HDM4 (D-20) is recommended for detection of R3HDM4 of human origin, C030046I01Rik 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).

R3HDM4 (D-20) is also recommended for detection of R3HDM4 in additional species, including bovine, porcine and avian.

Suitable for use as control antibody for R3HDM4 siRNA (h): sc-97578, C030046l01Rik siRNA (m): sc-141812, R3HDM4 shRNA Plasmid (h): sc-97578-SH, C030046l01Rik shRNA Plasmid (m): sc-141812-SH, R3HDM4 shRNA (h) Lentiviral Particles: sc-97578-V and C030046l01Rik shRNA (m) Lentiviral Particles: sc-141812-V.

Molecular Weight of C19orf22: 30 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.

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