

QPCTL (S-19): sc-243905

BACKGROUND

QPCTL (glutaminyl-peptide cyclotransferase-like protein) is a 382 amino acid single-pass membrane protein that belongs to the glutaminyl-peptide cyclotransferase family. The QPCTL protein binds one zinc ion per subunit. The QPCTL gene is conserved in chimpanzee, canine, bovine, mouse, rat, zebrafish, *S. cerevisiae*, *K. lactis*, *E. gossypii*, *M. grisea* and *N. crassa*, and maps to human chromosome 19q13.32. 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 Ig-like receptors, a number of ICAMs, the CEACAM and PSG family, and Fcγ 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: QPCTL (human) mapping to 19q13.32; Qpctl (mouse) mapping to 7 A3.

SOURCE

QPCTL (S-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of QPCTL of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-243905 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

QPCTL (S-19) is recommended for detection of QPCTL 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).

QPCTL (S-19) is also recommended for detection of QPCTL in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for QPCTL siRNA (h): sc-97698, QPCTL siRNA (m): sc-152612, QPCTL shRNA Plasmid (h): sc-97698-SH, QPCTL shRNA Plasmid (m): sc-152612-SH, QPCTL shRNA (h) Lentiviral Particles: sc-97698-V and QPCTL shRNA (m) Lentiviral Particles: sc-152612-V.

Molecular Weight of QPCTL: 43 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.



Try **QPCTL (B-3): sc-515717** or **QPCTL (D-3): sc-515718**, our highly recommended monoclonal alternatives to QPCTL (S-19).