

C1orf69 (D-20): sc-242150

BACKGROUND

Belonging to the CAF17 subfamily of the gcvT family, C1orf69 is a 356 amino acid mitochondrial protein that is required for normal heme synthesis. Heme synthesis is dependent upon receiving iron through iron sulfur (Fe-S) cluster biogenesis proteins such as C1orf69, which is specifically thought to assemble Fe-S clusters for mitochondrial aconitase and lipoate synthase. In zebrafish, deficiency of C1orf69 causes anemia. The gene encoding C1orf69 maps to human chromosome 1, the largest human chromosome spanning about 260 million base pairs and making up 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: IBA57 (human) mapping to 1q42.13.

SOURCE

C1orf69 (D-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of C1orf69 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-242150 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

C1orf69 (D-20) is recommended for detection of C1orf69 of 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).

Suitable for use as control antibody for C1orf69 siRNA (h): sc-88708, C1orf69 shRNA Plasmid (h): sc-88708-SH and C1orf69 shRNA (h) Lentiviral Particles: sc-88708-V.

Molecular Weight of C1orf69: 38 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.