FUNDC1 (T-17): sc-241468



The Power to Question

BACKGROUND

FUNDC1 (FUN14 domain-containing protein 1) is a 155 amino acid protein belonging to the FUN14 family. The gene encoding FUNDC1 maps to human chromosome Xp11.3 and mouse chromosome X A1.2. The X and Y chromosomes are the human sex chromosomes. Chromosome X consists of about 153 million base pairs and nearly 1,000 genes. The combination of an X and Y chromosome lead to normal male development while two copies of X lead to normal female development. More than one copy of the X chromosome with a Y chromosome causes Klinefelter's syndrome. A single copy of X alone leads to Turner's syndrome. More than 2 copies of the X chromosome, in the absence of a Y chromosome, is known as Triple X syndrome. Color blindness, hemophilia, and Duchenne muscular dystrophy are well known X chromosome-linked conditions which affect males more frequently as males carry a single X chromosome.

REFERENCES

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- 4. Muntoni, F., Torelli, S. and Ferlini, A. 2003. Dystrophin and mutations: one gene, several proteins, multiple phenotypes. Lancet Neurol. 2: 731-740.
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CHROMOSOMAL LOCATION

Genetic locus: FUNDC1 (human) mapping to Xp11.3; Fundc1 (mouse) mapping to X A1.2.

SOURCE

FUNDC1 (T-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FUNDC1 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-241468 P, (100 μg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

FUNDC1 (T-17) is recommended for detection of FUNDC1 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 FUNDC2.

FUNDC1 (T-17) is also recommended for detection of FUNDC1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for FUNDC1 siRNA (h): sc-91118, FUNDC1 siRNA (m): sc-145273, FUNDC1 shRNA Plasmid (h): sc-91118-SH, FUNDC1 shRNA Plasmid (m): sc-145273-SH, FUNDC1 shRNA (h) Lentiviral Particles: sc-91118-V and FUNDC1 shRNA (m) Lentiviral Particles: sc-145273-V.

Molecular Weight of FUNDC1: 17 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.

PROTOCOLS

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

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