

FUNDC1 (H-22): sc-133597

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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CHROMOSOMAL LOCATION

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

SOURCE

FUNDC1 (H-22) is an affinity purified rabbit polyclonal antibody raised against synthetic FUNDC1 peptide of human origin.

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

FUNDC1 (H-22) 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), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

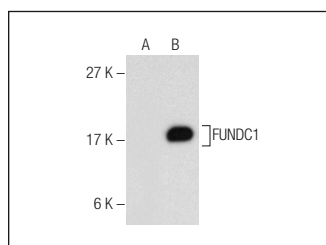
Molecular Weight of FUNDC1: 17 kDa.

Positive Controls: FUNDC1 (m): 293T Lysate: sc-110323 or human fetal heart tissue extract.

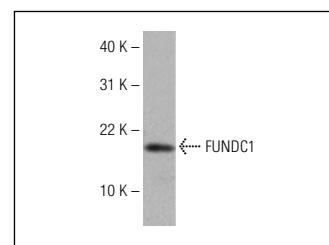
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



FUNDC1 (H-22): sc-133597. Western blot analysis of FUNDC1 expression in non-transfected: sc-117752 (A) and mouse FUNDC1 transfected: sc-110323 (B) 293T whole cell lysates.



FUNDC1 (H-22): sc-133597. Western blot analysis of FUNDC1 expression in human fetal heart tissue extract.

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.