**BACKGROUND**

FUNDC2 Antibody (2G12) is a high quality monoclonal FUNDC2 antibody (also designated FUNDC2 antibody) suitable for the detection of the FUNDC2 protein of human origin. FUNDC2 Antibody (2G12) is available as the non-conjugated anti-FUNDC2 antibody. FUNDC2 (FUN14 domain-containing protein 2), also known as HCC-3 (cervical cancer proto-oncogene 3 protein), HCBP6 (hepatitis C virus core-binding protein 6) or DC44, is a 189 amino acid protein belonging to the FUN14 family. The gene encoding FUNDC2 maps to human chromosome Xq28. 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 female development. More than one copy of the X chromosome with Y chromosome causes Klinefelter’s syndrome. A single copy of X alone leads to Turner’s syndrome. More than two 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**


**CHROMOSOMAL LOCATION**

Genetic locus: FUNDC2 (human) mapping to Xq28.

**SOURCE**

FUNDC2 (2G12) is a mouse monoclonal antibody raised against amino acids 1-100 representing partial length FUNDC2 of human origin.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PRODUCT**

Each vial contains 100 μg IgG, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

FUNDC2 (2G12) is recommended for detection of FUNDC2 of 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 FUNDC2 siRNA (h): sc-90945, FUNDC2 shRNA Plasmid (h): sc-90945-SH and FUNDC2 shRNA (h) Lentiviral Particles: sc-90945-V.

Molecular Weight of FUNDC2: 21 kDa.


**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG<sub>B</sub>-HRP: sc-516102 or m-IgG<sub>H</sub>-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-612414 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**

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**PROTOCOLS**

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