SANTA CRUZ BIOTECHNOLOGY, INC.

FNDC4 (C-13): sc-107547

BACKGROUND

Fibronectins are multi-domain glycoproteins that bind to a variety of substances including collagen, Actin, heparin, DNA, fibrin and Fibronectin receptors. They are involved in a diverse array of important functions such as blood coagulation, wound healing, cell adhesion, cell differentiation and migration. FNDC4 (Fibronectin type III domain-containing protein 4), also known as FRCP1 (Fibronectin type III repeat-containing protein 1), is a 234 amino acid membrane protein that contains one Fibronectin type-III domain, which serves as a binding site for DNA, heparin or the cell surface. The gene encoding FNDC4 is localized to human chromosome 2, which houses over 1,400 genes and comprises nearly 8% of the human genome.

REFERENCES

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5. Teufel, A., Malik, N., Mukhopadhyay, M. and Westphal, H. 2002. Frcp1 and Frcp2, two novel Fibronectin type III repeat containing genes. Gene 297: 79-83.
6. Carafoli, F., Saffell, J.L. and Hohenester, E. 2008. Structure of the tandem Fibronectin type 3 domains of neural cell adhesion molecule. J. Mol. Biol. 377: 524-534.
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CHROMOSOMAL LOCATION

Genetic locus: FNDC4 (human) mapping to 2p23.3; Fndc4 (mouse) mapping to 5 B1.

SOURCE

FNDC4 (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a C-terminal cytoplasmic domain of FNDC4 of human origin.

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.

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-107547 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FNDC4 (C-13) is recommended for detection of FNDC4 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 other FNDC family members.

Suitable for use as control antibody for FNDC4 siRNA (h): sc-94389, FNDC4 siRNA (m): sc-145213, FNDC4 shRNA Plasmid (h): sc-94389-SH, FNDC4 shRNA Plasmid (m): sc-145213-SH, FNDC4 shRNA (h) Lentiviral Particles: sc-94389-V and FNDC4 shRNA (m) Lentiviral Particles: sc-145213-V.

Molecular Weight of FNDC4: 25 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.