SANTA CRUZ BIOTECHNOLOGY, INC.

FNDC3A (N-20): sc-68180



BACKGROUND

FNDC3A (fibronectin type III domain containing 3A), also known as HUG0 (human gene expressed in odontoblasts), is a 1,134 amino acid protein that belongs to the FNDC3 family of proteins. FNDC3A contains an N-terminal proline-rich region, nine fibronectin type-III domains (none of which contain an RGD sequence) and a hydrophobic C-terminal transmembranous helix. Expressed in a wide variety of tissues, FNDC3A localizes to Golgi vesicles and to the developing acrosome of spermatids. FNDC3A is believed to function in glycosaminoglycan and collagen synthesis. In mice, a mutation in the gene encoding FNDC3A causes male sterility due to defective adhesion between sertoli cells and spermatids in the seminiferous epithelium. This suggests that FNDC3A plays an important role in spermatogenesis, possibly mediating or maintaining the adhesion between sertoli cells and spermatids.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FNDC3A (human) mapping to 13q14.2; Fndc3a (mouse) mapping to 14 D2.

SOURCE

FNDC3A (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of FNDC3A 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-68180 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FNDC3A (N-20) is recommended for detection of fibronectin type-iii domaincontaining protein 3a 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).

FNDC3A (N-20) is also recommended for detection of fibronectin type-iii domain-containing protein 3a in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for FNDC3A siRNA (h): sc-62333, FNDC3A siRNA (m): sc-72053, FNDC3A shRNA Plasmid (h): sc-62333-SH, FNDC3A shRNA Plasmid (m): sc-72053-SH, FNDC3A shRNA (h) Lentiviral Particles: sc-62333-V and FNDC3A shRNA (m) Lentiviral Particles: sc-72053-V.

Molecular Weight of FNDC3A: 132 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201.

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) Immunofluo-rescence: use 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.

MONOS Satisfation Guaranteed

Try **FNDC3A (J-7): sc-100771**, our highly recommended monoclonal alternative to FNDC3A (N-20).