

FNDC8 (D-17): sc-240473

BACKGROUND

Fibronectins are multi-domain glycoproteins that bind to a variety of substances including collagen, actin, heparin, DNA, fibrin and fibronectin receptors. Fibronectins are involved in a diverse array of important functions such as blood coagulation, wound healing, cell adhesion, cell differentiation and migration. Fibronectin type-III domain containing proteins, such as cell surface receptors and cell adhesion molecules, mediate protein-protein interactions and are involved in multiple biological processes including tissue development and metastasis. FNDC8 (fibronectin type III domain containing 8) is a 324 amino acid protein containing one fibronectin type-III domain. Conserved in human, chimpanzee, canine, bovine, mouse and rat, FNDC8 is encoded by a gene located on human chromosome 17q12. Human chromosome 17 comprises over 2.5% of the human genome and encodes over 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: *Fndc8* (mouse) mapping to 11 C.

SOURCE

FNDC8 (D-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FNDC8 of mouse 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-240473 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FNDC8 (D-17) is recommended for detection of FNDC8 of mouse and rat 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.

FNDC8 (D-17) is also recommended for detection of FNDC8 in additional species, including canine and porcine.

Suitable for use as control antibody for FNDC8 siRNA (m): sc-145216, FNDC8 shRNA Plasmid (m): sc-145216-SH and FNDC8 shRNA (m) Lentiviral Particles: sc-145216-V.

Molecular Weight of FNDC8: 36 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.

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.