



FNDC5 (173G2P): sc-517622

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. FNDC5 (Fibronectin type III domain containing 5), also known as FRCP2, is a 196 amino acid single-pass type I membrane protein that is imported in peroxisomes through the Peroxin 5 receptor pathway. Existing as four alternatively spliced isoforms, FNDC5 is encoded by a gene located on human chromosome 1p35.1, which spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome. Chromosome 1 houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome.

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CHROMOSOMAL LOCATION

Genetic locus: FNDC5 (human) mapping to 1p35.1.

SOURCE

FNDC5 (173G2P) is a mouse monoclonal antibody raised against KLH-coupled FNDC5 corresponding to amino acids 12-152 of human origin.

PRODUCT

Each vial contains 100 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

FNDC5 (173G2P) is recommended for detection of FNDC5 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

Suitable for use as control antibody for FNDC5 siRNA (h): sc-78601, FNDC5 shRNA Plasmid (h): sc-78601-SH and FNDC5 shRNA (h) Lentiviral Particles: sc-78601-V.

Molecular Weight of FNDC5: 22 kDa.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

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 for detailed protocols and support products.