

DYSFIP1 (C-14): sc-164245

BACKGROUND

DYSFIP1 (dysferlin interacting protein 1), also known as toonin or MGC138299, is a 154 amino acid protein containing two ankyrin (ANK) repeats, which are L-shaped structures containing one β -hairpin and two α -helices that may function as protein-protein interaction domains. DYSFIP1 interacts with dysferlin and is encoded by a gene located on human chromosome 17, which 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. Tumor suppressor p53 is necessary for maintenance of cellular genetic integrity by moderating cell fate through DNA repair versus cell death. Malfunction or loss of p53 expression is associated with malignant cell growth and Li-Fraumeni syndrome. Like p53, BRCA1 is directly involved in DNA repair, though specifically it is recognized as a genetic determinant of early onset breast cancer and predisposition to cancers of the ovary, colon, prostate gland and fallopian tubes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PPP1R27 (human) mapping to 17q25.3; Ppp1r27 (mouse) mapping to 11 E2.

SOURCE

DYSFIP1 (C-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of DYSFIP1 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-164245 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DYSFIP1 (C-14) is recommended for detection of DYSFIP1 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).

DYSFIP1 (C-14) is also recommended for detection of DYSFIP1 in additional species, including avian.

Suitable for use as control antibody for DYSFIP1 siRNA (h): sc-93863, DYSFIP1 siRNA (m): sc-143210, DYSFIP1 shRNA Plasmid (h): sc-93863-SH, DYSFIP1 shRNA Plasmid (m): sc-143210-SH, DYSFIP1 shRNA (h) Lentiviral Particles: sc-93863-V and DYSFIP1 shRNA (m) Lentiviral Particles: sc-143210-V.

Molecular Weight of DYSFIP1: 17 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.