

DEPDC5 (D-19): sc-86116

BACKGROUND

DEPDC5 (DEP domain containing 5), also known as DEP5, is a 1,572 amino acid protein that exists as 8 alternatively spliced isoforms and contains one DEP domain. A member of the IML1 family, DEPDC5 is encoded by a gene that maps to human chromosome 22, which is the second smallest human chromosome. Phelan-McDermid syndrome, neurofibromatosis type 2 and autism are associated with chromosome 22. A schizophrenia susceptibility locus has been identified on chromosome 22 and studies show that 22q12.2 deletion symptoms include a high incidence of schizophrenia. Translocations between chromosomes 9 and 22 may lead to the formation of the Philadelphia chromosome and the subsequent production of the novel fusion protein, Bcr-Abl, a potent cell proliferation activator found in several types of leukemia.

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CHROMOSOMAL LOCATION

Genetic locus: DEPDC5 (human) mapping to 22q12.2; Depdc5 (mouse) mapping to 5 B1.

SOURCE

DEPDC5 (D-19) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of DEPDC5 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-86116 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DEPDC5 (D-19) is recommended for detection of DEPDC5 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 DEPDC5-4 and DEPDC5-7.

DEPDC5 (D-19) is also recommended for detection of DEPDC5 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for DEPDC5 siRNA (h): sc-77132, DEPDC5 siRNA (m): sc-143008, DEPDC5 shRNA Plasmid (h): sc-77132-SH, DEPDC5 shRNA Plasmid (m): sc-143008-SH, DEPDC5 shRNA (h) Lentiviral Particles: sc-77132-V and DEPDC5 shRNA (m) Lentiviral Particles: sc-143008-V.

Molecular Weight of DEPDC5 isoforms: 178/64/171/179/173/138/112 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.