

DCL-1 (E-14): sc-167604

BACKGROUND

DCL-1, also known as CD302, CLEC13A (C-type lectin domain family 13 member A) or C-type lectin BIMLEC, is a 232 amino acid single-pass type I membrane protein involved in endocytosis, phagocytosis and cell adhesion and migration. A C-type lectin receptor, DCL-1 is widely expressed with highest levels found in peripheral blood, myeloid and B lymphoid cell lines, liver, ovary and lung. DCL-1 undergoes alternative splicing to produce three isoforms designated DCL-1 isoform 1, isoform 2 (also known as fusion protein variant V34-2) and isoform 3 (also designated fusion protein variant V33-2). DCL-1 isoforms 2 and 3 are produced in malignant lymphoma cells, known as Hodgkin and Reed-Sternberg (HRS) cells. DCL-1 contains one C-type lectin domain and is encoded by a gene that maps to human chromosome 2q24.2. A number of genetic diseases are linked to genes on chromosome 2 including Harlequin ichthyosis, sitosterolemia and Alström syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CD302 (human) mapping to 2q24.2; Cd302 (mouse) mapping to 2 C1.1.

SOURCE

DCL-1 (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of DCL-1 of human origin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

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-167604 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DCL-1 (E-14) is recommended for detection of DCL-1 of human origin and Cd302 of mouse and rat origin and 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).

DCL-1 (E-14) is also recommended for detection of DCL-1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for DCL-1 siRNA (h): sc-94620, Cd302 siRNA (m): sc-142196, DCL-1 shRNA Plasmid (h): sc-94620-SH, Cd302 shRNA Plasmid (m): sc-142196-SH, DCL-1 shRNA (h) Lentiviral Particles: sc-94620-V and Cd302 shRNA (m) Lentiviral Particles: sc-142196-V.

Molecular Weight of DCL-1: 26 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.