

CD99 (P-13): sc-241354

BACKGROUND

CD99, also known as D4 or PILR-L (paired immunoglobulin-like type 2 receptor-ligand), is a 175 amino acid single-pass type I membrane protein that belongs to the CD99 family. Existing as a homodimer that interacts with PILR- β , CD99 is involved in lymphocyte transendothelial migration (TEM) and the recruitment of lymphocytes to inflamed skin. CD99 also plays a role in T cell adhesion, and in the generation of Hodgkin and Reed-Sternberg cells. High levels of CD99 can be found in lung, spleen, thymus, liver and spinal cord, as well as a wide range of T-cells. The gene encoding CD99 maps to mouse chromosome 4.

REFERENCES

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STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

CHROMOSOMAL LOCATION

Genetic locus: Cd99 (mouse) mapping to 4.

SOURCE

CD99 (P-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of CD99 of mouse 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-241354 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CD99 (P-13) is recommended for detection of CD99 of mouse 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 MIC2L1.

Suitable for use as control antibody for CD99 siRNA (m): sc-142203, CD99 shRNA Plasmid (m): sc-142203-SH and CD99 shRNA (m) Lentiviral Particles: sc-142203-V.

Molecular Weight of CD99: 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.

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.