**BACKGROUND**

DCIR (dendritic cell immunoreceptor), is a type II membrane glycoprotein with a single carbohydrate recognition domain (CRD), closest in homology to those of the macrophage lectin and hepatic asialoglycoprotein receptors. The intracellular domain of DCIR contains a consensus immunoreceptor tyrosine-based inhibitory motif. DCIR is expressed on dendritic cells, monocytes, macrophages, B lymphocytes, and granulocytes, but not detected on NK and T cells. DCIR expression in dendritic cells is decreased by signals inducing its maturation, such as LPS, TNFα or CD40. DCIR contains one copy of a cytoplasmic motif that is referred to as the immunoreceptor tyrosine-based inhibitor motif (ITIM). This motif is involved in modulation of cellular responses such as protein tyrosine phosphorylation and B-cell-receptor-mediated calcium mobilization. The phosphorylated ITIM motif can bind the SH2 domain of several SH2-containing phosphatases.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: CLEC4A (human) mapping to 12p13.31; Clec4a2 (mouse) mapping to 6 F2.

**SOURCE**

DCIR (G-9) is a mouse monoclonal antibody raised against amino acids 191-237 mapping within a C-terminal extracellular domain of DCIR of human origin.

**RESEARCH USE**

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

**PRODUCT**

Each vial contains 200 µg IgG2b kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

DCIR (G-9) is recommended for detection of DCIR isoforms 1-4 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate), 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).

Suitable for use as control antibody for DCIR siRNA (h): sc-60507, DCIR siRNA (m): sc-60508, DCIR shRNA Plasmid (h): sc-60507-SH, DCIR shRNA Plasmid (m): sc-60508-SH, DCIR shRNA (h) Lentiviral Particles: sc-60507-V and DCIR shRNA (m) Lentiviral Particles: sc-60508-V.

Molecular Weight of DCIR: 35 kDa.

Positive Controls: Raji whole cell lysate, AML-193 whole cell lysate: sc-364182 or CCRF-CEM cell lysate: sc-364182.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**

**SELECT PRODUCT CITATIONS**


**STORAGE**

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

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