

## DCIR (N-19): sc-46903

### 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 intra-cellular domain of DCIR contains a consensus immunoreceptor tyrosine-based inhibitory motif. DCIR is expressed on dendritic cells, monocytes, macrophages, B lymphocytes and granulocytes, but is not detected on NK and T cells. DCIR expression in dendritic cells is decreased by signals inducing its maturation, such as LPS, TNF $\alpha$  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

- Huang, X., Yuan, Z., Chen, G., Zhang, M., Zhang, W., Yu, Y. and Cao, X. 2001. Cloning and characterization of a novel ITIM containing lectin-like immunoreceptor LLIR and its two transmembrane region deletion variants. *Biochem. Biophys. Res. Commun.* 281: 131-140.
- Richard, M., Veilleux, P., Rouleau, M., Paquin, R. and Beaulieu, A.D. 2002. The expression pattern of the ITIM-bearing lectin CLECSF6 in neutrophils suggests a key role in the control of inflammation. *J. Leukoc. Biol.* 71: 871-880.
- Kanazawa, N., Tashiro, K., Inaba, K. and Miyachi, Y. 2003. Dendritic cell immunoactivating receptor, a novel C-type lectin immunoreceptor, acts as an activating receptor through association with Fc receptor  $\gamma$  chain. *J. Biol. Chem.* 278: 32645-32652.
- Richard, M., Thibault, N., Veilleux, P., Breton, R. and Beaulieu, A.D. 2003. The ITIM-bearing CLECSF6 (DCIR) is downmodulated in neutrophils by neutrophil activating agents. *Biochem. Biophys. Res. Commun.* 310: 767-773.

### CHROMOSOMAL LOCATION

Genetic locus: CLEC4A (human) mapping to 12p13.31.

### SOURCE

DCIR (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of DCIR of human origin.

### PRODUCT

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

Blocking peptide available for competition studies, sc-46903 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### STORAGE

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

### APPLICATIONS

DCIR (N-19) is recommended for detection of DCIR isoforms 1 and 2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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 shRNA Plasmid (h): sc-60507-SH and DCIR shRNA (h) Lentiviral Particles: sc-60507-V.

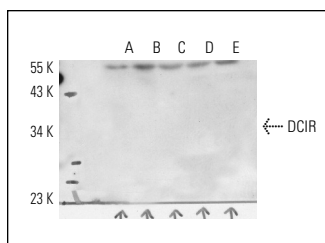
Molecular Weight of DCIR: 35 kDa.

Positive Controls: Raji whole cell lysate: sc-364236, AML-193 whole cell lysate: sc-364182 or CCRF-CEM cell lysate: sc-2225.

### 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

### DATA



DCIR (N-19): sc-46903. Western blot analysis of DCIR expression in human PBL (A), AML-193 (B), CCRF-CEM (C), U-698-M (D) and Raji (E) cell lysates.

### RESEARCH USE

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

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Try **DCIR (G-9): sc-374583**, our highly recommended monoclonal alternative to DCIR (N-19).