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## Anti-Human CMKLR1 Purified

Catalog Number: 14-7581


Also Known As: serpentine chemokine-like receptor 1

RUO: For Research Use Only

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### Product Information

Contents: Anti-Human CMKLR1 Purified


 Catalog Number: 14-7581

Clone: BZ332


Concentration: 0.5 mg/ml


Host/Isotype: Rat IgG2a,  $\kappa$

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C.

 Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

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### Description

The BZ332 antibody reacts with human chemokine-like receptor 1, CMKLR1. CMKLR1 (also known as ChemR23 or DEZ), is a recently-described serpentine chemoattractant receptor. CMKLR1 has been shown to be expressed by dendritic cells (DC) generated in vitro from monocytes, and to mediate their migration to the proteolytically regulated chemoattractant chemerin. CMKLR1 is expressed by circulating DCs in human blood. Importantly, it is selectively expressed by immature plasmacytoid DCs, but not myeloid DCs, thus enabling discrimination between these two dendritic cell lineages. While CMKLR1 is expressed by circulating pDCs in human blood, mDCs, as well as lymphocytes, monocytes, neutrophils, and eosinophils are negative. Human serum contains a chemoattractant for CMKLR1 which is identical with chemerin; this activity is triggered during blood coagulation, suggesting a mechanism for attraction of pDCs to sites of tissue damage and bleeding. Expression of CMKLR1 and migration to locally activated chemerin may allow the rapid and differential recruitment of pDCs in vivo. Unlike mDCs, circulating pDCs do not respond to inflammatory chemokines.

### Applications Reported

This BZ332 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This BZ332 antibody has been tested by flow cytometric analysis of human CMKLR1-transfected cells. This can be used at less than or equal to 2  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Zabel, B., et al. 2005. Chemokine-Like Receptor 1 Expression and Chemerin-Directed Chemotaxis Distinguish Plasmacytoid from Myeloid Dendritic Cells in Human Blood. *J. Immunol.* 174: 244-251.

### Related Products

11-4317 Streptavidin FITC

11-4811 Anti-Rat IgG FITC

12-4317 Streptavidin PE

13-4813 Anti-Rat IgG Biotin (Polyclonal)

14-4321 Rat IgG2a K Isotype Control Purified

17-4317 Streptavidin APC

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