

Datasheet: MCA2468FT

Description:	RAT ANTI HUMAN CMKLR1:FITC
Specificity:	CMKLR1
Other names:	CHEMOKINE-LIKE RECEPTOR 1
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	BZ332
Isotype:	IgG2a
Quantity:	25 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/10

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human		
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		

Immunogen	Peptide corresponding to an epitope within the N-terminal region of human CMKLR1.
External Database Links	<p>UniProt: Q99788 Related reagents</p> <p>Entrez Gene: 1240 CMKLR1 Related reagents</p>
Synonyms	CHEMR23, DEZ
RRID	AB_2229602
Specificity	<p>Rat anti Human CMKLR1 antibody, clone BZ332 recognizes human serpentine chemokine-like receptor 1 (CMKLR1), a novel chemoattractant receptor, which is also referred to Chem23 or DEZ. CMKLR1 is expressed on plasmacytoid dendritic cells (pDC) in blood but is not expressed on myeloid dendritic cells, lymphocytes, monocytes or granulocytes. Studies show that CMKLR1 is also expressed on dendritic cells, which have been generated <i>in vitro</i> from monocytes.</p> <p>The sole ligand for CMKLR1 is chemerin, a chemoattractant that exists at the mRNA level in a wide range of tissues, and as an inactive proform in serum and plasma. Studies suggest that chemerin, in plasma, is converted into a potent pDC attractant following blood coagulation and may be a process by which pDC's are recruited to sites of bleeding and tissue damage.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. Zabel, B.A. <i>et al.</i> (2005) Chemokine-like receptor 1 expression and chemerin-directed chemotaxis distinguish plasmacytoid from myeloid dendritic cells in human blood. J Immunol. 174 (1): 244-51. 2. Maheshwari, A. <i>et al.</i> (2009) Epithelial cells in fetal intestine produce chemerin to recruit macrophages. Am J Physiol Gastrointest Liver Physiol. 297: G1-G10. 3. ChanY, L.T. <i>et al.</i> (2018) NK cells produce high levels of IL-10 early after allogeneic stem cell transplantation and suppress development of acute GVHD. Eur J Immunol. 48 (2): 316-29. 4. Li, L. <i>et al.</i> (2014) Chemerin-derived peptide C-20 suppressed gonadal steroidogenesis. Am J Reprod Immunol. 71 (3): 265-77.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation #10041 available at:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:FITC \(MCA6005F\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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