



# Anti-CMKLR1 monoclonal antibody, clone CA443 [Pacific Blue™] (CABT-53860RH)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	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.
<b>Specificity</b>	Rat anti Human CMKLR1 antibody, clone CA443 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 in vitro from monocytes.
<b>Immunogen</b>	Peptide corresponding to an epitope within the N-terminal region of human CMKLR1.
<b>Isotype</b>	IgG2a
<b>Source/Host</b>	Rat
<b>Species Reactivity</b>	Human
<b>Clone</b>	CA443
<b>Conjugate</b>	Pacific Blue
<b>Applications</b>	Flow Cytometry
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.
<b>Format</b>	Purified IgG conjugated to Pacific Blue? - liquid.
<b>Concentration</b>	IgG concentration 0.05 mg/ml.

<b>Size</b>	25 tests
<b>Buffer</b>	Phosphate buffered saline.
<b>Preservative</b>	0.09% Sodium Azide
<b>Storage</b>	<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>

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CMKLR1 chemokine-like receptor 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	CMKLR1
<b>Synonyms</b>	CMKLR1; chemokine-like receptor 1; DEZ; RVER1; ChemR23; CHEMERINR; chemokine-like receptor 1; chemerin receptor; resolvin E1 receptor; chemokine receptor-like 1; G-protein coupled receptor DEZ; G-protein coupled receptor ChemR23; orphan G-protein coupled receptor, Dez; Chemokine-like receptor 1; G-protein coupled receptor DEZ
<b>Entrez Gene ID</b>	<a href="#">1240</a>
<b>Protein Refseq</b>	<a href="#">NP_001135815</a>
<b>UniProt ID</b>	<a href="#">Q99788</a>
<b>Chromosome Location</b>	12q24.1
<b>Pathway</b>	GPCRs
<b>Function</b>	G-protein coupled receptor activity; chemokine receptor activity; protein binding; receptor activity
<b>References</b>	<ol style="list-style-type: none"> <li>1. Zabel, B.A. et al. (2005) Chemokine-like receptor 1 expression and chemerin-directed chemotaxis distinguishes plasmacytoid from myeloid dendritic cells in human blood. J. Immunol. 174: 244 – 251.</li> <li>2. Maheshwari, A. et al. (2009) Epithelial cells in fetal intestine produce chemerin to recruit macrophages. Am J Physiol Gastrointest Liver Physiol. 297: G1-G10.</li> </ol>