



## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## Rat Anti Human CMKLR1

With HRP-conjugated Secondary Antibody

**Catalog No.**

DS-MB-01022

**Target Species**

Human

**Isotype**

IgG2a

### Description

**Synonyms:** Chemokine Like Receptor 1

**Immunogen:** Peptide corresponding to an epitope within the N-terminal region of human CMKLR1.

### Specificity

DS-MB-01022 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.

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.

**Flow Cytometry:** Use 10ul of the suggested working dilution to label  $10^6$  cells in 100ul.

### Formulation

**Preparation:** Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

**Product Type:** Monoclonal Antibody

**Product Form:** Purified IgG - liquid

**Buffer Solution:** Phosphate buffered saline pH7.4

**Preservative & Stabilizers:** 0.09% Sodium Azide

**Approx. Protein Concentrations:** IgG concentration 1.0 mg/ml

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life:** 18 months from date of dispatch.

### Applications

**Table Summary of antibody applications and working conditions**

| Options<br>Functions        | YES | NO | Not determined | Recommended<br>Work dilution or<br>concentration |
|-----------------------------|-----|----|----------------|--|
| Western Blotting            |     |    | •              |  |
| ELISA                       |     |    | •              |  |
| Immunohistology - frozen    |     |    | •              |  |
| Immunohistology - paraffin  |     |    | •              |  |
| Immunohistology - resin     |     |    | •              |  |
| Immunoprecipitation         |     |    | •              |  |
| Immunofluorescence staining |     |    | •              |  |
| Flow Cytometry              | •   |    |                | 1/25 - 1/100                                     |

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

### Secondary Antibody Applications

| Options<br>Functions                 | YES | NO | Not determined | Recommended<br>Work dilution or<br>concentration |
|--------------------------------------|-----|----|----------------|--|
| Immunoassay (ELISA,<br>Western blot) | •   |    |                | 1:5000-1:10000                                   |

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