

## Datasheet: MCA1810T

|                      |                       |
|----------------------|-----------------------|
| <b>Description:</b>  | MOUSE ANTI HUMAN CD23 |
| <b>Specificity:</b>  | CD23                  |
| <b>Other names:</b>  | FceRII                |
| <b>Format:</b>       | S/N                   |
| <b>Product Type:</b> | Monoclonal Antibody   |
| <b>Clone:</b>        | 1B12                  |
| <b>Isotype:</b>      | IgG1                  |
| <b>Quantity:</b>     | 0.1 ml                |

## 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](http://www.bio-rad-antibodies.com/protocols).

|                                | Yes | No | Not Determined | Suggested Dilution |
|--------------------------------|-----|----|----------------|--------------------|
| Flow Cytometry                 | ■   |    |                |                    |
| Immunohistology - Frozen       | ■   |    |                | 1/20 - 1/40        |
| Immunohistology - Paraffin (1) | ■   |    |                | 1/20 - 1/40        |

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.

**(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

|                                 |                                                                                                                                                                                       |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Target Species</b>           | Human                                                                                                                                                                                 |
| <b>Product Form</b>             | Tissue Culture Supernatant - liquid                                                                                                                                                   |
| <b>Preservative Stabilisers</b> | 0.09% Sodium Azide                                                                                                                                                                    |
| <b>Immunogen</b>                | Recombinant human CD23.                                                                                                                                                               |
| <b>External Database Links</b>  | <p><b>UniProt:</b><br/> <a href="#">P06734</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">2208</a>   FCER2   <a href="#">Related reagents</a></p> |
| <b>Synonyms</b>                 | CD23A, CLEC4J, FCE2, IGEBF                                                                                                                                                            |
| <b>Fusion Partners</b>          | Spleen cells from immunised mice were fused with cells of the mouse p3-NS1-Ag4-1 myeloma cell                                                                                         |

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specificity</b>                       | <p><b>Mouse anti Human CD23 antibody, clone 1B12</b> recognizes the human CD23 cell surface antigen also known as FcεRII (Fc epsilon Receptor II). CD23 is a 45 kDa glycoprotein that functions as a low affinity receptor for IgE.</p> <p>CD23 is expressed by peripheral B lymphocytes, cells of B cell chronic lymphocytic leukaemia and upon EBV transformed lymphoblastoid cells.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Histology Positive Control Tissue</b> | Tonsil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>References</b>                        | <ol style="list-style-type: none"> <li>1. Watson, P. <i>et al.</i> (2000) Monoclonal antibodies recognizing CD5, CD10 and CD23 in formalin-fixed, paraffin-embedded tissue: production and assessment of their value in the diagnosis of small B-cell lymphoma. <a href="#">Histopathology. 36: 145-50.</a></li> <li>2. Steiniger, B. <i>et al.</i> (2011) The follicular dendritic cell network in secondary follicles of human palatine tonsils and spleens. <a href="#">Histochem Cell Biol. 135: 327-36.</a></li> <li>3. Yoshida, S. <i>et al.</i> (2005) Primary breast diffuse large B-cell lymphoma shows a non-germinal center B-cell phenotype. <a href="#">Mod Pathol. 18: 398-405.</a></li> <li>4. Tasaki, K. <i>et al.</i> (2007) CD5-positive mucosa-associated lymphoid tissue (MALT) lymphoma of ocular adnexal origin: usefulness of fluorescence <i>in situ</i> hybridization for distinction between mantle cell lymphoma and MALT lymphoma. <a href="#">Pathol Int. 57: 101-7.</a></li> </ol> |
| <b>Storage</b>                           | <p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Shelf Life</b>                        | 18 months from date of despatch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Health And Safety Information</b>     | Material Safety Datasheet documentation #10055 available at: 10055: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10055.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10055.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Regulatory</b>                        | For research purposes only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Related Products

### Recommended Secondary Antibodies

|                                         |                                                                                                                                                                                                                               |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Goat Anti Mouse IgG (STAR76...)         | <a href="#">RPE</a>                                                                                                                                                                                                           |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | <a href="#">Alk. Phos.</a> , <a href="#">HRP</a>                                                                                                                                                                              |
| Goat Anti Mouse IgG (H/L) (STAR117...)  | <a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®549</a> , <a href="#">DyLight®649</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a> |
| Rabbit Anti Mouse IgG (STAR9...)        | <a href="#">FITC</a>                                                                                                                                                                                                          |
| Goat Anti Mouse IgG (STAR77...)         | <a href="#">HRP</a>                                                                                                                                                                                                           |
| Rabbit Anti Mouse IgG (STAR12...)       | <a href="#">RPE</a>                                                                                                                                                                                                           |
| Goat Anti Mouse IgG (Fc) (STAR120...)   | <a href="#">FITC</a> , <a href="#">HRP</a>                                                                                                                                                                                    |
| Rabbit Anti Mouse IgG (STAR8...)        | <a href="#">DyLight®800</a>                                                                                                                                                                                                   |

Goat Anti Mouse IgG (STAR70...) [FITC](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Human Anti Mouse IgG1 (HCA036...) [HRP](#)

## Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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