

## Datasheet: MCA2775

|                      |                                 |
|----------------------|---------------------------------|
| <b>Description:</b>  | MOUSE ANTI HUMAN CD71 (SOLUBLE) |
| <b>Specificity:</b>  | CD71 (SOLUBLE)                  |
| <b>Other names:</b>  | TRANSFERRIN RECEPTOR            |
| <b>Format:</b>       | Purified                        |
| <b>Product Type:</b> | Monoclonal Antibody             |
| <b>Clone:</b>        | 23D10                           |
| <b>Isotype:</b>      | IgG2b                           |
| <b>Quantity:</b>     | 0.2 mg                          |

## 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   |     |    | ▪              |                    |
| Immunohistology - Paraffin |     |    | ▪              |                    |
| ELISA                      | ▪   |    |                |                    |
| Immunoprecipitation        |     |    | ▪              |                    |
| Western Blotting (1)       | ▪   |    |                |                    |

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) Clone 23D10 recognises human CD71 (soluble) under non-reducing conditions.**

|                                 |   |
|---------------------------------|---|
| <b>Target Species</b>           | Human   |
| <b>Product Form</b>             | Purified IgG - liquid   |
| <b>Preparation</b>              | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant |
| <b>Buffer Solution</b>          | Phosphate buffered saline   |
| <b>Preservative Stabilisers</b> | <0.1% Sodium Azide (NaN <sub>3</sub> )  |

|                                       |  |
|---------------------------------------|--|
| <b>Approx. Protein Concentrations</b> | IgG concentration 1.0 mg/ml  |
| <b>Immunogen</b>                      | Purified human soluble transferrin receptor.   |
| <b>External Database Links</b>        | <p><b>UniProt:</b><br/> <a href="#">P02786</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">7037</a>    TFRC    <a href="#">Related reagents</a></p>  |
| <b>RRID</b>                           | AB_1102318   |
| <b>Fusion Partners</b>                | Spleen cells from immunised BALB/c mice were fused with cells of the mouse Sp2/0 myeloma cell line.  |
| <b>Specificity</b>                    | <p><b>Mouse anti Human CD71 (Soluble) antibody, clone 23D10</b> recognizes human soluble CD71 (also known as transferrin receptor, or TfR). CD71 is a homodimeric membrane protein, approximately 90 kDa in size. It is responsible for the uptake of iron into the cell, by binding to and internalising iron-bound transferrin (ferrotransferrin). After the iron is released into the cell, the apotransferrin is relocated to the cell surface and released into the circulation. When CD71 is cleaved at Arg-100, a soluble (or serum) form of the protein is released. The level of soluble CD71 is used to detect erythropoietin misuse by athletes. It is also used to diagnose iron deficiency anemia.</p> <p>Mouse anti Human CD71 (Soluble) antibody, clone 23D10 recognizes human soluble transferrin receptor and the complex between soluble transferrin receptor and transferrin.</p> |
| <b>Storage</b>                        | <p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>  |
| <b>Guarantee</b>                      | 12 months from date of despatch  |
| <b>Health And Safety Information</b>  | Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2775">https://www.bio-rad-antibodies.com/SDS/MCA2775</a><br>10040  |
| <b>Regulatory</b>                     | For research purposes only   |

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)    [HRP](#)

|   |   |
|---|---|
| Rabbit Anti Mouse IgG (STAR12...)       | <a href="#">RPE</a>   |
| Rabbit Anti Mouse IgG (STAR8...)        | <a href="#">DyLight®800</a>   |
| Goat Anti Mouse IgG (STAR76...)         | <a href="#">RPE</a>   |
| Goat Anti Mouse IgG (Fc) (STAR120...)   | <a href="#">FITC</a> , <a href="#">HRP</a>  |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | <a href="#">Alk. Phos.</a> , <a href="#">HRP</a>  |
| Rabbit Anti Mouse IgG (STAR13...)       | <a href="#">HRP</a>   |
| Goat Anti Mouse IgG (STAR70...)         | <a href="#">FITC</a>  |
| Rabbit Anti Mouse IgG (STAR9...)        | <a href="#">FITC</a>  |
| Goat Anti Mouse IgG (H/L) (STAR117...)  | <a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> ,<br><a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> ,<br><a href="#">FITC</a> , <a href="#">HRP</a> |

## Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

|                                  |   |                  |   |               |   |
|----------------------------------|---|------------------|---|---------------|---|
| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a> | <b>Worldwide</b> | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a> | <b>Europe</b> | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
|----------------------------------|---|------------------|---|---------------|---|

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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