

## Datasheet: MCA2458FT

|                      |                            |
|----------------------|----------------------------|
| <b>Description:</b>  | MOUSE ANTI HUMAN CD15:FITC |
| <b>Specificity:</b>  | CD15                       |
| <b>Other names:</b>  | LEWIS X                    |
| <b>Format:</b>       | FITC                       |
| <b>Product Type:</b> | Monoclonal Antibody        |
| <b>Clone:</b>        | MEM-158                    |
| <b>Isotype:</b>      | IgM                        |
| <b>Quantity:</b>     | 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](http://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.

|                                       |   |                            |                          |
|---------------------------------------|---|----------------------------|--------------------------|
| <b>Target Species</b>                 | Human   |                            |                          |
| <b>Species Cross Reactivity</b>       | Does not react with:Pig   |                            |                          |
| <b>Product Form</b>                   | Purified IgM conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid              |                            |                          |
| <b>Max Ex/Em</b>                      | <b>Fluorophore</b>  | <b>Excitation Max (nm)</b> | <b>Emission Max (nm)</b> |
|                                       | FITC  | 490                        | 525                      |
| <b>Preparation</b>                    | Purified IgM prepared by ion exchange chromatography  |                            |                          |
| <b>Buffer Solution</b>                | Phosphate buffered saline   |                            |                          |
| <b>Preservative</b>                   | 0.09% Sodium Azide  |                            |                          |
| <b>Stabilisers</b>                    | 1% Bovine Serum Albumin   |                            |                          |
| <b>Approx. Protein Concentrations</b> | Ig concentration 0.1 mg/ml  |                            |                          |
| <b>Immunogen</b>                      | Human granulocytes.   |                            |                          |
| <b>Specificity</b>                    | <b>Mouse anti Human CD15 antibody, clone MEM-158</b> recognizes the human CD15 cell surface |                            |                          |

antigen, also known as Lewis X , stage-specific embryonic antigen-1 or SSEA-1.

CD15 is a carbohydrate antigen, predominately expressed by peripheral blood granulocytes ([Brackman et al.1995](#)) but also on a variety of other normal cells and many tumors ([Ohana-Malka et al. 2003](#)). Expression of CD15 is widely used as a diagnostic indicator of Hodgkin's disease where acquisition of a sialyl group by CD15 is indicative of progression to a more disseminated form of the disease and poor prognosis ([Benharroch et al. 2000](#)).

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**Flow Cytometry** Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells or 100ul whole blood.

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**References**

1. Brackman, D. *et al.* (1995) Expression of leukocyte differentiation antigens during the differentiation of HL-60 cells induced by 1,25-dihydroxyvitamin D3: comparison with the maturation of normal monocytic and granulocytic bone marrow cells. [J Leukoc Biol. 58: 547-55.](#)
2. Lowdell, M. (2014) Preserved compositions of activated NK cells and methods of using the same. [US Patent US8735148 B2](#)
3. Woolley, J.R. *et al.* (2014) Temporal leukocyte numbers and granulocyte activation in pulsatile and rotary ventricular assist device patients. [Artif Organs. 38 \(6\): 447-55.](#)

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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. This product is photosensitive and should be protected from light.  
Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Shelf Life** 18 months from date of despatch.

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

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgM NEGATIVE CONTROL:FITC \(MCA692F\)](#)

### Recommended Useful Reagents

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

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

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