

## Datasheet: MCA1556A700

|                      |                                        |
|----------------------|----------------------------------------|
| <b>Description:</b>  | MOUSE ANTI HUMAN CD10:Alexa Fluor® 700 |
| <b>Specificity:</b>  | CD10                                   |
| <b>Other names:</b>  | CALLA                                  |
| <b>Format:</b>       | ALEXA FLUOR® 700                       |
| <b>Product Type:</b> | Monoclonal Antibody                    |
| <b>Clone:</b>        | SN5c                                   |
| <b>Isotype:</b>      | IgG1                                   |
| <b>Quantity:</b>     | 100 TESTS/1ml                          |

## 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 - 1/5         |

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.

|                                |                                                                                               |                     |                   |
|--------------------------------|-----------------------------------------------------------------------------------------------|---------------------|-------------------|
| Target Species                 | Human                                                                                         |                     |                   |
| Product Form                   | Purified IgG conjugated to Alexa Fluor® 700 - liquid                                          |                     |                   |
| Max Ex/Em                      | Fluorophore                                                                                   | Excitation Max (nm) | Emission Max (nm) |
|                                | Alexa Fluor®700                                                                               | 702                 | 723               |
| Preparation                    | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant |                     |                   |
| Buffer Solution                | Phosphate buffered saline                                                                     |                     |                   |
| Preservative                   | 0.09% Sodium Azide                                                                            |                     |                   |
| Stabilisers                    | 1%    Bovine Serum Albumin                                                                    |                     |                   |
| Approx. Protein Concentrations | IgG concentration 0.05 mg/ml                                                                  |                     |                   |
| Immunogen                      | Partially purified cell membrane antigens from fresh leukemia cells                           |                     |                   |
| External Database Links        | UniProt:<br><a href="#">P08473</a> <a href="#">Related reagents</a>                           |                     |                   |

**Entrez Gene:**[4311](#) MME [Related reagents](#)

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>                      | EPN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Fusion Partners</b>               | Spleen cells from immunised BALB/c mice were fused with cells of the mouse PS/NS1/1-Ag4-1 myeloma cell line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Specificity</b>                   | <b>Mouse anti Human CD10 antibody, clone SN5c</b> recognizes the human CD10 cell surface antigen, a ~100 kDa glycoprotein expressed by acute lymphoblastic leukaemia cells and by peripheral blood granulocytes. CD10 is also known as the Common Acute Lymphoblastic Leukaemia Antigen (CALLA).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Flow Cytometry</b>                | Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>References</b>                    | <ol style="list-style-type: none"><li>1. Matsuzaki, H. <i>et al.</i> (1987) Unique epitopes of common acute lymphoblastic leukemia antigen detected by new monoclonal antibodies. <a href="#">Cancer Res. 47 (8): 2160-6.</a></li><li>2. Biddle, W.C. <i>et al.</i> (1989) <i>In vitro</i> and <i>in vivo</i> cytotoxic activity of anti-human leukemia monoclonal antibodies SN5c and SN6 daunorubicin conjugates. <a href="#">Leuk Res. 13 (8): 699-707.</a></li><li>3. Riemann, D. <i>et al.</i> (2001) Caveolae/lipid rafts in fibroblast-like synoviocytes: ectopeptidase-rich membrane microdomains. <a href="#">Biochem J. 354 (Pt 1): 47-55.</a></li><li>4. Diaz-Romero, J. <i>et al.</i> (2008) Immunophenotypic changes of human articular chondrocytes during monolayer culture reflect <i>bona fide</i> dedifferentiation rather than amplification of progenitor cells. <a href="#">J Cell Physiol. 214: 75-83.</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. 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Shelf Life</b>                    | 18 months from date of despatch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10041 available at:<br>10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Regulatory</b>                    | For research purposes only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 700 \(MCA928A700\)](#)

### Recommended Useful Reagents

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

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

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