**Description:** MOUSE ANTI HUMAN CD48

**Specificity:** CD48

**Other names:** BLAST-1

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** MEM-102

**Isotype:** IgG1

**Quantity:** 25 µg

**Applications**

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
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<td></td>
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<tr>
<td>Immunohistology - Frozen</td>
<td></td>
<td></td>
<td></td>
<td>1/50 - 1/100</td>
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<tr>
<td>Immunohistology - Paraffin</td>
<td></td>
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<td>ELISA</td>
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<tr>
<td>Immunoprecipitation</td>
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<td>Western Blotting (1)</td>
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<tr>
<td>Immunofluorescence</td>
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</table>

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 recognizes CD48 under non-reducing conditions.

**Target Species**

Human

**Species Cross Reactivity**

Reacts with: Rhesus Monkey

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

**Product Form**

Purified IgG - liquid
**Preparation**
Purified IgG prepared by affinity chromatography on Protein G

**Buffer Solution**
Phosphate buffered saline

**Preservative Stabilisers**
0.09% Sodium Azide

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

**External Database Links**

- **UniProt:**
  - [P09326](http://www.uniprot.org/uniprot/P09326)
  - Related reagents

- **Entrez Gene:**
  - CD48
  - Related reagents

**Synonyms**
BCM1, BLAST1

**RRID**
AB_1102104

**Specificity**

Mouse anti Human CD48 antibody, clone MEM-102 recognizes human CD48, also known as B-lymphocyte activation marker BLAST-1, BCM1 surface antigen, Leukocyte antigen MEM-102, SLAM family member 2 or Signaling lymphocytic activation molecule 2. CD 48, as a mature molecule is a 193 amino acid, ~45 kDa cell membrane glycoprotein containing 2 Ig-like domains.


Mouse anti Human CD48 antibody, clone MEM-102 is useful for the visualisation of CD48 expressing cells by immunofluorescence ([Enose-Akahata et al. 2009](https://www.ncbi.nlm.nih.gov/pubmed/19635540)) and flow cytometry and may be used in studies to differentiate haemapoietic tumors, sarcomas and melanomas.

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

**Immunohistology**
This product does not require protein digestion pre-treatment of paraffin sections. This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections.

**Histology Positive Control Tissue**
Tonsil

**References**
2. Korinek, V. *et al.* (1991) The human leucocyte antigen CD48 (MEM-102) is closely

**Storage**

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

This product should be stored undiluted.

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.

**Guarantee**

12 months from date of despatch

**Health And Safety Information**


**Regulatory**

For research purposes only

**Related Products**

**Recommended Secondary Antibodies**

- Rabbit Anti Mouse IgG (STAR12...) RPE
- Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP
- Goat Anti Mouse IgG (STAR76...) RPE
- Rabbit Anti Mouse IgG (STAR13...) HRP
- Goat Anti Mouse IgG (STAR70...) FITC
Goat Anti Mouse IgG (H/L) (STAR117...)  
**Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP**

Goat Anti Mouse IgG (Fc) (STAR120...)  
**FITC, HRP**

Goat Anti Mouse IgG (STAR77...)  
**HRP**

Rabbit Anti Mouse IgG (STAR9...)  
**FITC**

### Recommended Negative Controls

**MOUSE IgG1 NEGATIVE CONTROL (MCA928)**

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

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

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