### Datasheet: MCA773

<table>
<thead>
<tr>
<th>Description:</th>
<th>MOUSE ANTI RAT CD54</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity:</td>
<td>CD54</td>
</tr>
<tr>
<td>Other names:</td>
<td>ICAM-1</td>
</tr>
<tr>
<td>Format:</td>
<td>Purified</td>
</tr>
<tr>
<td>Product Type:</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone:</td>
<td>1A29</td>
</tr>
<tr>
<td>Isotype:</td>
<td>IgG1</td>
</tr>
<tr>
<td>Quantity:</td>
<td>0.2 mg</td>
</tr>
</tbody>
</table>

### 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.abdserotec.com/protocols](http://www.abdserotec.com/protocols).

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td></td>
<td></td>
<td></td>
<td>1/25 - 1/50</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<tr>
<td>Immunohistology - Paraffin(1)</td>
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<td>ELISA</td>
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<td>Immunoprecipitation</td>
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<tr>
<td>Western Blotting</td>
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</tbody>
</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 clone is suitable for use on paraffin embedded material using target unmasking fluid HIS003B for this purpose.**

#### Target Species
Rat

#### Product Form
Purified IgG - liquid

#### Preparation
Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

#### Buffer Solution
Phosphate buffered saline

#### Preservative Stabilisers
0.09% Sodium Azide

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

#### Immunogen
Rat Ax cells (a HEV derived cell line)

#### External Database Links
UniProt:
**Related reagents**

**Entrez Gene:**
- 25464: Icam1

**Synonyms**
- Icam-1

**Fusion Partners**
- Spleen cells from immunised BALB/c mice were fused with cells from the PAI mouse myeloma cell line.

**Specificity**

**Mouse anti Rat CD54 antibody, clone 1A29** recognizes the rat CD54 cell surface antigen, also known as intercellular adhesion molecule-1 (ICAM-1), a 90kD adhesion molecule belonging to the immunoglobulin superfamily.

CD54 is a cell surface ligand of the lymphocyte integrin, LFA-1 and is known to play an important role in various cell-cell interactions in the immune system. Recent studies suggest that cross-linking of ICAM-1 using clone 1A29 induces calcium signalling (Etienne, S. *et al.*).

Functionally 1A29 inhibits homotypic aggregation of PHA blasts.

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

**References**


**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.

**Shelf Life**

18 months from date of despatch.

**Health And Safety Information**


**Regulatory**

For research purposes only

**Recommended Products**

**Recommended Secondary Antibodies**

| Rabbit Anti Mouse IgG (STAR8...) | DyLight®800 |
| Rabbit Anti Mouse IgG (STAR76...) | RPE |
| Rabbit Anti Mouse IgG (STAR9...) | FITC |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | Alk. Phos., HRP |
| Rabbit Anti Mouse IgG (STAR12...) | RPE |
| Rabbit Anti Mouse IgG (STAR13...) | HRP |
| HuCAL Anti Mouse IgG1 (HCA036...) | HRP |
| Goat Anti Mouse IgG (Fc) (STAR120...) | FITC, HRP |
| Goat Anti Mouse IgG (STAR70...) | FITC |
| Goat Anti Mouse IgG (H/L) (STAR117...) | Alk. Phos., DyLight®800, FITC, HRP |

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