Datasheet: MCA1615P647

**Description:** MOUSE ANTI HUMAN CD54:RPE-Alexa Fluor® 647

**Specificity:** CD54

**Other names:** ICAM-1

**Format:** RPE-ALEXA FLUOR® 647

**Product Type:** Monoclonal Antibody

**Clone:** 15.2

**Isotype:** IgG1

**Quantity:** 100 TESTS

**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).

<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>
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<td>Neat</td>
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Where this product 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 product for use in their own system using appropriate negative/positive controls.

**Target Species**

Human

**Species Cross Reactivity**

Reacts with: Pig

N.B. Antibody reactivity and working conditions may vary between species.

**Product Form**

Purified IgG conjugated to RPE-Alexa Fluor 647 - lyophilized

**Reconstitution**

Reconstitute with 1.0 ml distilled water

Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.

**Max Ex/Em**

<table>
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<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPE-Alexa Fluor®647 488nm laser</td>
<td>496</td>
<td>667</td>
</tr>
<tr>
<td>RPE-Alexa Fluor®647 561nm laser</td>
<td>546</td>
<td>667</td>
</tr>
</tbody>
</table>

**Preparation**

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

**Buffer Solution**

Phosphate buffered saline

**Preservative**

0.09% Sodium Azide (NaN₃)

**Stabilisers**

1% Bovine Serum Albumin
5% Sucrose

Immunogen

Human monocytes

External Database Links

UniProt: P05362 Related reagents

Entrez Gene: 3383 ICAM1 Related reagents

Fusion Partners

Spleen cells from immunised BALB/c mice were fused with cells of the mouse Sp2/O-Ag14 myeloma cell line

Specificity

Mouse anti Human CD54 antibody, clone 15.2 recognizes the human CD54 cell surface antigen also known as intracellular Adhesion Molecule -1 (ICAM-1) or Major group rhinovirus receptor.

CD54 is expressed by many cells following activation by inflammatory mediators. It is a 505 amino acid with an additional 27 amino acid signal peptide ~90 kDa single pass type I transmembrane glycoprotein bearing 5 Ig-like C2-type domains.

Mouse anti Human CD54 antibody, clone 15.2 blocks CD54 function (Berendt et al. 1992). Mouse anti Human CD54 antibody, clone 15.2 binds to an epitope on the N-terminal Ig-like domain within a region designated the L43 loop (Chakravorty and Craig 2005).

Flow Cytometry

Use 10ul of the suggested working dilution to label 10^6 cells in 100ul

References

13. Baumer, Y. et al. (2011) Telomerase-based immortalization modifies the


**Storage**

Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light.

Should this product contain a precipitate we recommend microcentrifugation before use.

**Guarantee**

12 months from date of reconstitution

**Acknowledgements**

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**Health And Safety Information**


**Regulatory**

For research purposes only

**Related Products**

**Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL: RPE-Alexa Fluor® 647 (MCA928P647)

**Recommended Useful Reagents**

HUMAN SEROBLOCK (BUF070A)

HUMAN SEROBLOCK (BUF070B)