Datasheet: MCA1334G

BATCH NUMBER 1709

**Product Details**

**Description:** MOUSE ANTI RAT CD31

**Specificity:** CD31

**Other names:** PECAM-1

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** TLD-3A12

**Isotype:** IgG1

**Quantity:** 0.25 mg

**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>
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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>1/10 - 1/100</td>
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<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin</td>
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<td>Immunofluorescence</td>
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<td>Functional Assays (1)</td>
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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) **Bio-Rad recommend the use of MCA1334EL for use in functional studies**

**Target Species**

Rat

**Species Cross Reactivity**

Reacts with: Rhesus Monkey, Pig

**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 A from tissue culture supernatant
Buffer Solution | Phosphate buffered saline
Preservative Stabilisers | 0.09% Sodium Azide
Carrier Free | Yes
Approx. Protein Concentrations | IgG concentration 1.0 mg/ml
Immunogen | Activated, Lewis rat derived microglial cells.

External Database Links

UniProt: Q3SWT0  Related reagents
Entrez Gene: 29583  Pecam1  Related reagents

Synonyms | Pecam
RRID | AB_322925
Fusion Partners | Spleen cells from immunised BALB/c mouse were fused with cells of the mouse SP2 myeloma cell line.

Specificity

Mouse anti Rat CD31 antibody, clone TLD-3A12 recognizes rat PECAM-1 (CD31), a 661 amino acid type 1 transmembrane protein expressed primarily on endothelial cells, platelets and leucocytes.

Clone TLD-3A12 has been shown to partially block the proliferative response of antigen-specific CD4+ T cells to antigen-presenting cells and relevant antigen (Stevenson, K.S. et al. 2009).

Mouse anti Rat CD31 antibody, clone TLD-3A12 is suitable for use in IHC on formalin-fixed paraffin-embedded sections pre-treated with 0.2M boric acid, pH7.0. (Wilson et al. 2007). Mouse anti Rat CD31, clone TLD-3A12 has been shown to be cross-reactive with endothelial cells derived from rhesus macaque (Maclean et al. 2001)

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

References

40. Sønstevold, T. et al. (2017) Hyperbaric oxygen treatment did not significantly affect


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

Material SafetyDatasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1334G

10040

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) RPE
Goat Anti Mouse IgG IgA IgM (STAR87...) 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
Rabbit Anti Mouse IgG (STAR9...) FITC
Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA1209)

Goat Anti Mouse IgG (STAR77...) HRP
Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

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

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