Datasheet: MCA1334GA

**Description:** MOUSE ANTI RAT CD31

**Specificity:** CD31

**Other names:** PECAM-1

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** TLD-3A12

**Isotype:** IgG1

**Quantity:** 0.1 mg

**RRID** AB_2161159

**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.

<table>
<thead>
<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>Immunoprecipitation</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.

**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

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 10^8 cells in 100ul.

References


32. Matsugami, H.et al. (2014) VEGF secretion by adipose tissue-derived regenerative cells is impaired under hyperglycemic conditions via glucose transporter activation and ROS increase Biomedical Research. 35 (6): 397-405.

**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**

18 months from date of despatch.

**Health And Safety Information**


**Regulatory**

For research purposes only

**Related Products**

**Recommended Secondary Antibodies**

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos., HRP]
Goat Anti Mouse IgG (STAR77...) HRP
Rabbit Anti Mouse IgG (STAR12...) RPE
Rabbit Anti Mouse IgG (STAR8...) DyLight800
Rabbit Anti Mouse IgG (STAR13...) HRP
Goat Anti Mouse IgG (STAR76...) RPE
Goat Anti Mouse IgG (STAR70...) FITC
Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)  FITC
Goat Anti Mouse IgG (H/L) (STAR117...)  Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP

**Recommended Negative Controls**

**MOUSE IgG1 NEGATIVE CONTROL (MCA1209)**

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