**Technical Data Sheet**

**Purified Rat Anti-Mouse MAdCAM-1**

**Product Information**

**Material Number:** 553806  
**Size:** 0.5 mg  
**Concentration:** 0.5 mg/ml  
**Clone:** MECA-367  
**Immunogen:** Mouse endothelial cells from BALB/c mouse mesenteric and peripheral lymph nodes.  
**Isotype:** Rat (W) IgG2a, κ  
**Reactivity:** QC Testing: Mouse  
**Storage Buffer:** Aqueous buffered solution containing ≤0.09% sodium azide.

**Description**

The MECA-367 antibody reacts with mucosal vascular addressin MAdCAM-1. In the fetus and neonate, MAdCAM-1 is the predominant vascular addressin on the high endothelial venules (HEV) of peripheral lymph nodes. In adult mice, MAdCAM-1 is preferentially expressed in mucosal lymphoid tissues and lamina propria; it is also expressed on sinus-lining cells in the spleen. MAdCAM-1 expression is upregulated on the HEV of peripheral lymph nodes in adult NOD mice and is involved in the development of diabetes and insulitis. Furthermore, there is evidence that IFN-γ can induce MAdCAM-1 expression in non-mucosal sites in adult mice. MAdCAM-1 is a predominant ligand for integrin α4β7, a lymphocyte mucosal homing receptor, and a facultative ligand for CD62L (L-selectin). MECA-367 mAb binds to the first domain of MAdCAM-1 and blocks MAdCAM-1-dependent binding in vitro and lymphocyte homing to Peyer’s patch HEV in vivo. Source of the immunogen was endothelial cells from BALB/c mouse mesenteric and peripheral lymph nodes.

**Preparation and Storage**

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4°C.

**Application Notes**

**Application**

- Flow cytometry: Routinely Tested
- Immunoprecipitation: Reported
- Western blot: Reported
- Immunoaffinity Chromatography: Reported
- Blocking: Reported
- Immunohistochemistry-frozen: Reported

**Recommended Assay Procedure:**

For IHC, we recommend the use of purified MECA-367 mAb in our special formulation for immunohistochemistry, Cat. No. 550556.

**Suggested Companion Products**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>553927</td>
<td>Purified Rat IgG2a, κ Isotype Control</td>
<td>0.5 mg</td>
<td>R35-95</td>
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<tr>
<td>554016</td>
<td>FITC Goat Anti-Rat Ig</td>
<td>0.5 mg</td>
<td>Polyclonal</td>
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</tbody>
</table>

**Product Notices**

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

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References


