Technical Data Sheet

Purified Rat Anti-Mouse PNAd Carbohydrate Epitope

Product Information

Material Number: 553863
Alternate Name: CD62L Ligand
Size: 0.5 mg
Concentration: 0.5 mg/ml
Clone: MECA-79
Immunogen: Collagenase-dispersed BALB/c lymph node stroma
Isotype: Rat (WF) IgM, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The MECA-79 antibody reacts with sulfate-dependent carbohydrate epitopes of peripheral lymph node addressin (PNAd). The MECA-79-reactive antigen is closely associated with the carbohydrate ligands for L-selectin (e.g., CD34, GlyCAM-1, MAdCAM-1), which are expressed on high endothelial venules (HEV) in lymphoid tissues and at sites of chronic inflammation. Cross-reactivity with human, sheep, cow, primate, and pig tissues has been observed. MECA-79 antibody inhibits L-selectin-dependent lymphocyte and platelet homing to lymph nodes in vivo, and in vitro adhesion to lymphoid tissue HEV and immobilized PNAd.

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

<table>
<thead>
<tr>
<th>Application</th>
<th>Approval Status</th>
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</thead>
<tbody>
<tr>
<td>Immunohistochemistry-paraffin</td>
<td>Routinely Tested</td>
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<tr>
<td>Immunohistochemistry-frozen</td>
<td>Reported</td>
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<tr>
<td>Immunoprecipitation</td>
<td>Reported</td>
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<tr>
<td>Western blot</td>
<td>Reported</td>
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<tr>
<td>Blocking</td>
<td>Reported</td>
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<tr>
<td>Immunohistochemistry-zinc-fixed</td>
<td>Reported</td>
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</tbody>
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Recommended Assay Procedure:

This antibody has been tested by immunohistochemical staining (IHC) of citrate-pretreated formalin-fixed paraffin-embedded sections (5 - 20 µg/ml) to assure specificity and reactivity. Other reported applications include IHC of acetone-fixed frozen sections, immunoprecipitation, western blot analysis, and in vitro and in vivo adhesion blocking.

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>553940</td>
<td>Purified Rat IgM, κ Isotype Control</td>
<td>0.5 mg</td>
<td>R4-22</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>
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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.
4. Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.

References

Berg EL, Robinson MK, Warnock RA, Butcher EC. The human peripheral lymph node vascular addressin is a ligand for LECAM-1, the peripheral lymph node homing receptor. J Cell Biol. 1991; 114(2):343-349. (Clone-specific: Blocking, Immunoprecipitation)


