Polyclonal rabbit anti-rat NTPDase1/CD39 antibodies

Name: rN1-6l(I4,I5)

Applications

<table>
<thead>
<tr>
<th>Method</th>
<th>Yes</th>
<th>Dilution</th>
<th>No</th>
<th>Not tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western blot (non-reduced)§</td>
<td>+</td>
<td>1:3000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western blot (reduced)</td>
<td></td>
<td></td>
<td>×</td>
<td></td>
</tr>
<tr>
<td>Immunohistochemistry*</td>
<td>+</td>
<td>1:1000</td>
<td></td>
<td></td>
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<tr>
<td>Flow cytometry</td>
<td></td>
<td></td>
<td>×</td>
<td></td>
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<tr>
<td>ELISA</td>
<td></td>
<td></td>
<td>×</td>
<td></td>
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<tr>
<td>Immunoprecipitation</td>
<td></td>
<td></td>
<td>×</td>
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</tbody>
</table>

§ Thiol-reactive reagents (e.g. β-mercaptoethanol, DTT) must be avoided as they destroy the epitope recognized by the antibody.

* Cryosection and acetone fixation.

Cross-reactivity

In Western blot, rN1-6lI5 cross-reacts with mouse NTPDase1 but not with human NTPDase1.

Western Blot

Protein samples (6 µg) from a lysate from COS-7 (ctrl) or from COS-7 cells transiently transfected with a plasmid encoding for rat NTPDase1 were loaded on a NuPAGE® Novex® Bis-Tris 4-12% gel under non-reducing conditions, transferred to an Immobilon-P membrane and incubated with rN1-6lI4. A specific band is detected only in sample from cells expressing rat NTPDase1.
Immuno(cyto/histo)chemistry

A: Immunocytochemistry of untransfected COS-7 cells or transfected with a plasmid encoding rat NTPDase1 both incubated with rN1-6L or preimmune serum. A strong signal is observed only with the antiserum in cells expressing rat NTPDase1. No signal is detected in any of the control cells.

B: A rat liver section incubated with rN1-6L displays a strong signal in blood vessels, in both, endothelial and smooth muscle cells.


In both panels, nuclei are stained with hematoxylin (blue).

Storage

To avoid excessive freeze-thaw cycles, a small amount can be kept at 4°C for generally up to one year. A better method consists to dilute the antibody 10 times in one part of 145 mM NaCl, 1% BSA, 10 mM Tris (pH 7.4), and one part of glycerol (for a final concentration of 50% v/v) and to keep it at -20°C (note that 50% glycerol solutions freeze at about -30°C). For long-term storage, freeze samples directly at -80°C.

Reference to cite in your publication (paper where these antibodies were characterized)

This antibody was obtained from ectonucleotidases-ab.com and its specificity was characterized in:

Few other references where these antibodies were used


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