Product datasheet

Anti-CD10 antibody ab82073

Overview

Product name: Anti-CD10 antibody
Description: Rabbit polyclonal to CD10
Host species: Rabbit
Tested applications: Suitable for: Flow Cyt, IHC-P, WB
Species reactivity: Reacts with: Human
Immunogen: Synthetic peptide within Human CD10 aa 450-550 (internal sequence). The exact sequence is proprietary. Database link: P08473
Positive control: Human tonsil and human small intestine tissue. In western blot, this antibody gave a positive signal in human kidney tissue lysate.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer: pH: 7.6
Preservative: 0.1% Sodium azide
 Constituents: PBS, 1% BSA
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab82073 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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Function
Thermolysin-like specificity, but is almost confined on acting on polypeptides of up to 30 amino acids. Biologically important in the destruction of opioid peptides such as Met- and Leu-enkephalins by cleavage of a Gly-Phe bond. Able to cleave angiotensin-1, angiotensin-2 and angiotensin 1-9. Involved in the degradation of atrial natriuretic factor (ANF). Displays UV-inducible elastase activity toward skin preelastic and elastic fibers.

Sequence similarities
Belongs to the peptidase M13 family.

Cellular localization
Cell membrane.

### Images

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<tr>
<td>Flow Cyt</td>
<td></td>
<td>Use at an assay dependent concentration. <strong>ab171870</strong> - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.</td>
</tr>
<tr>
<td>IHC-P</td>
<td>1/100</td>
<td>For antigen retrieval boil tissue section in 10mM Citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.</td>
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<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 1 µg/ml. Detects a band of approximately 100 kDa (predicted molecular weight: 86 kDa).</td>
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</tbody>
</table>

Target

| Function   | Thermolysin-like specificity, but is almost confined on acting on polypeptides of up to 30 amino acids. Biologically important in the destruction of opioid peptides such as Met- and Leu-enkephalins by cleavage of a Gly-Phe bond. Able to cleave angiotensin-1, angiotensin-2 and angiotensin 1-9. Involved in the degradation of atrial natriuretic factor (ANF). Displays UV-inducible elastase activity toward skin preelastic and elastic fibers. |
| Sequence similarities | Belongs to the peptidase M13 family. |
| Cellular localization | Cell membrane. |

Images

ab82073, at 1/100 dilution, staining of Formalin-fixed, paraffin-embedded Human small intestine by Immunohistochemistry
Anti-CD10 antibody (ab82073) at 1 µg/ml + Human kidney tissue lysate - total protein (ab30203) at 10 µg

Secondary
Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 86 kDa
Observed band size: 100 kDa

why is the actual band size different from the predicted?

Exposure time: 1 minute

CD10 contains a number of potential glycosylation sites (SwissProt), which may explain its migration at a higher molecular weight than predicted.

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