Anti-Apelin antibody ab59469

Overview

Product name: Anti-Apelin antibody
Description: Rabbit polyclonal to Apelin
Host species: Rabbit
Specificity: This antibody reacts specifically with 8.5 kDa of human APLN protein.
Tested applications: Suitable for: WB, IHC-P
Species reactivity: Reacts with: Human, Monkey
Predicted to work with: Mouse, Rat, Cow
Immunogen: Synthetic peptide corresponding to Human Apelin (C terminal).
Database link: Q9ULZ1

Properties

Form: Liquid
Storage buffer: Constituent: Whole serum
Purity: Whole antiserum
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab59469 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td>1/500.</td>
<td></td>
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</table>
**Target**

<table>
<thead>
<tr>
<th>Function</th>
<th>Endogenous ligand for APJ, an alternative coreceptor with CD4 for HIV-1 infection. Inhibits HIV-1 entry in cells coexpressing CD4 and APJ. Apelin-36 has a greater inhibitory activity on HIV infection than other synthetic apelin derivatives. The oral intake in the colostrum and the milk could have a role in the modulation of the immune responses in neonates. May also have a role in the central control of body fluid homeostasis by influencing AVP release and drinking behavior.</th>
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<tbody>
<tr>
<td>Tissue specificity</td>
<td>Expressed in the brain with highest levels in the frontal cortex, thalamus, hypothalamus and midbrain. Secreted by the mammary gland into the colostrum and the milk.</td>
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<tr>
<td>Sequence similarities</td>
<td>Belongs to the apelin family.</td>
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<tr>
<td>Post-translational modifications</td>
<td>Several active peptides may be produced by proteolytic processing of the peptide precursor.</td>
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<tr>
<td>Cellular localization</td>
<td>Secreted.</td>
</tr>
</tbody>
</table>

**Images**

- ab59469 (1:500) staining Apelin in human placenta using an automated system (DAKO Autostainer Plus). Using this protocol there is strong staining of cytoplasmic/secreted regions of cells in the basal uterine glands.

  Sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffer EDTA pH 9.0 in a DAKO PT link. Slides were peroxidase blocked in 3% H2O2 in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected with Dako envision flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that, for manual staining, optimization of primary antibody concentration and incubation time is recommended. Signal amplification may be required.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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