Product datasheet

Anti-Adrenomedullin/ADM antibody ab69117

★★★★★ 2 Abreviews  6 References  2 Images

Overview

Product name: Anti-Adrenomedullin/ADM antibody
Description: Rabbit polyclonal to Adrenomedullin/ADM
Host species: Rabbit
Tested applications: Suitable for: WB, IHC-P
Species reactivity: Reacts with: Human
Predicted to work with: Rat, Horse, Pig
Does not react with: Mouse
Immunogen: Synthetic peptide corresponding to Human Adrenomedullin/ADM aa 1-100 conjugated to keyhole limpet haemocyanin.
(Peptide available as ab69116)
Positive control: This antibody gave a positive signal in the following Human Lysates: Breast Tissue MCF7 Whole Cell DU 145 Whole Cell MDA-MB-361 Whole Cell This antibody gave a positive result in IHC in the following FFPE tissue: Human placenta.
General notes: Previously labelled as Adrenomedullin.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer: pH: 7.40
Preservative: 0.02% Sodium azide
Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG
Function

AM and PAMP are potent hypotensive and vasodilatator agents. Numerous actions have been reported most related to the physiologic control of fluid and electrolyte homeostasis. In the kidney, am is diuretic and natriuretic, and both am and pamp inhibit aldosterone secretion by direct adrenal actions. In pituitary gland, both peptides at physiologically relevant doses inhibit basal ACTH secretion. Both peptides appear to act in brain and pituitary gland to facilitate the loss of plasma volume, actions which complement their hypotensive effects in blood vessels.

Tissue specificity

Highest levels found in pheochromocytoma and adrenal medulla. Also found in lung, ventricle and kidney tissues.

Sequence similarities

Belongs to the adrenomedullin family.

Cellular localization

Secreted.

Applications

Our Abpromise guarantee covers the use of ab69117 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>WB</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use a concentration of 1 µg/ml. Detects a band of approximately 22 kDa (predicted molecular weight: 20 kDa).</td>
</tr>
<tr>
<td>IHC-P</td>
<td></td>
<td>Use a concentration of 5 µg/ml.</td>
</tr>
</tbody>
</table>

Target

Function

AM and PAMP are potent hypotensive and vasodilatator agents. Numerous actions have been reported most related to the physiologic control of fluid and electrolyte homeostasis. In the kidney, am is diuretic and natriuretic, and both am and pamp inhibit aldosterone secretion by direct adrenal actions. In pituitary gland, both peptides at physiologically relevant doses inhibit basal ACTH secretion. Both peptides appear to act in brain and pituitary gland to facilitate the loss of plasma volume, actions which complement their hypotensive effects in blood vessels.

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Images

All lanes: Anti-Adrenomedullin/ADM antibody (ab69117) at 1 µg/ml

Lane 1: Human breast tissue lysate - total protein (ab30090)
Lane 2: MCF7 (Human breast adenocarcinoma cell line) Whole Cell Lysate
Lane 3: DU 145 (Human prostate carcinoma cell line) Whole Cell Lysate
Lane 4: MDA-MB-361 (Human breast adenocarcinoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes: Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Performed under reducing conditions.
Predicted band size: 20 kDa
Observed band size: 22 kDa

why is the actual band size different from the predicted?

Additional bands at: 170 kDa, 70 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 8 minutes

IHC image of Adrenomedullin/ADM staining in Human placenta formalin fixed paraffin embedded tissue section, performed on a Leica BondTM system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab69117, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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

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