**Product datasheet**

**Anti-Endothelin A Receptor/ET-A antibody ab85163**

| ★ ★ ★ ★ | 3 Abreviews | 8 References | 2 Images |

**Overview**

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Anti-Endothelin A Receptor/ET-A antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Rabbit polyclonal to Endothelin A Receptor/ET-A</td>
</tr>
<tr>
<td><strong>Host species</strong></td>
<td>Rabbit</td>
</tr>
<tr>
<td><strong>Tested applications</strong></td>
<td>Suitable for: IHC-Fr, WB</td>
</tr>
<tr>
<td><strong>Species reactivity</strong></td>
<td>Reacts with: Rat</td>
</tr>
<tr>
<td></td>
<td>Predicted to work with: Mouse, Rabbit, Dog, Human</td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
<td>Synthetic peptide corresponding to Rat Endothelin A Receptor/ET-A aa 100-200 conjugated to keyhole limpet haemocyanin. (Peptide available as ab93498)</td>
</tr>
<tr>
<td><strong>Positive control</strong></td>
<td>This antibody gave a positive signal in the following rat tissue lysates: Brain; Cerebellum.</td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th><strong>Form</strong></th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Storage instructions</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Storage buffer</strong></td>
<td>Preservative: 0.02% Sodium Azide</td>
</tr>
<tr>
<td></td>
<td>Constituents: 1% BSA, PBS, pH 7.4</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td><strong>Clonality</strong></td>
<td>Polyclonal</td>
</tr>
<tr>
<td><strong>Isotype</strong></td>
<td>IgG</td>
</tr>
</tbody>
</table>

**Applications**

Our **Abpromise guarantee** covers the use of **ab85163** 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-Fr</td>
<td>★ ★ ★ ★</td>
<td>Use at an assay dependent concentration.</td>
</tr>
</tbody>
</table>
### Function
Receptor for endothelin-1. Mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system. The rank order of binding affinities for ET-A is: ET1 > ET2 >> ET3.

### Tissue specificity
Isoform 1, isoform 3 and isoform 4 are expressed in a variety of tissues, with highest levels in the aorta and cerebellum, followed by lung, atrium and cerebral cortex, lower levels in the placenta, kidney, adrenal gland, duodenum, colon, ventricle and liver but no expression in umbilical vein endothelial cells. Within the placenta, isoform 1, isoform 2, isoform 3 and isoform 4 are expressed in the villi and stem villi vessels.

### Sequence similarities
Belongs to the G-protein coupled receptor 1 family. Endothelin receptor subfamily. EDNRA sub-subfamily.

### Cellular localization
Cell membrane.

### Images

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>WB</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use a concentration of 1 µg/ml. Detects a band of approximately 46 kDa (predicted molecular weight: 48 kDa).</td>
</tr>
</tbody>
</table>

**Target**

**Function**
Receptor for endothelin-1. Mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system. The rank order of binding affinities for ET-A is: ET1 > ET2 >> ET3.

**Tissue specificity**
Isoform 1, isoform 3 and isoform 4 are expressed in a variety of tissues, with highest levels in the aorta and cerebellum, followed by lung, atrium and cerebral cortex, lower levels in the placenta, kidney, adrenal gland, duodenum, colon, ventricle and liver but no expression in umbilical vein endothelial cells. Within the placenta, isoform 1, isoform 2, isoform 3 and isoform 4 are expressed in the villi and stem villi vessels.

**Sequence similarities**
Belongs to the G-protein coupled receptor 1 family. Endothelin receptor subfamily. EDNRA sub-subfamily.

**Cellular localization**
Cell membrane.

**Images**

![Western blot - Anti-Endothelin A Receptor/ET-A antibody (ab85163)](image.png)

**All lanes**: Anti-Endothelin A Receptor/ET-A antibody (ab85163) at 1 µg/ml

**Lane 1**: Brain (Rat) Tissue Lysate  
**Lane 2**: Cerebellum Rat Tissue 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

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size**: 48 kDa  
**Observed band size**: 46 kDa  
*why is the actual band size different from the predicted?*

**Exposure time**: 20 minutes
The band observed at 46 kDa could potentially be a cleaved form of Rat Endothelin-1 receptor precursor, as the target protein contains a 20 amino acid signal peptide, which when removed gives an expected molecular weight of 46 kDa.

**Western blot - Anti-Endothelin A Receptor/ET-A antibody (ab85163)**

This image is courtesy of an Abreview submitted by Nico Jentsch

**All lanes:** Anti-Endothelin A Receptor/ET-A antibody (ab85163) at 1/250 dilution (in 5% BSA + TBS + 0.1% Tween20 for 12 hours at 4°C)

**All lanes:** Whole tissue lysate of rat lung

Lysates/proteins at 40 µg per lane.

**Secondary**

**All lanes:** An HRP-conjugated Goat anti-rabbit IgG polyclonal at 1/1000 dilution

Developed using the ECL technique.

Performed under non-reducing conditions.

**Predicted band size:** 48 kDa

**Observed band size:** 48 kDa

**Exposure time:** 30 seconds

**Blocking step:** 5% Milk for 1 hour at 23°C

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

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