**Anti-Carbonic Anhydrase III antibody ab196835**

### Overview

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Anti-Carbonic Anhydrase III antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Rabbit polyclonal to Carbonic Anhydrase III</td>
</tr>
<tr>
<td><strong>Host species</strong></td>
<td>Rabbit</td>
</tr>
<tr>
<td><strong>Tested applications</strong></td>
<td>Suitable for: IHC-P, WB, ICC/IF</td>
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<tr>
<td><strong>Species reactivity</strong></td>
<td>Reacts with: Mouse, Rat, Human</td>
</tr>
<tr>
<td><strong>Predicted to work with</strong></td>
<td>Horse, Cow, Pig</td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
<td>Recombinant full length protein corresponding to Human Carbonic Anhydrase III aa 1-260.</td>
</tr>
<tr>
<td><strong>Sequence</strong></td>
<td>MAKEWGYASHNPDHHHELFPNAKGENQSPVELHT KDIRHDPLOQPWSVS YDGGSAKTINNGKTCRVDFTYDTRSMGLPLPGP YRLQFHLHWGS DDHGEHTVDFGYAAELHLVHTYPKNTFKEALKQ RDGIAVGIFLKG HENGEOQFLDALKIKTKGKEAPFTKFDPSCLFPACR DWYTVGQSFTTP PCHECMWLLKPEFTVSSDQMAMKLRSLSSAENEPP VPLVSNWRPPQPIINRVRASFK</td>
</tr>
<tr>
<td><strong>Database link</strong></td>
<td>P07451</td>
</tr>
<tr>
<td><strong>Positive control</strong></td>
<td>Skeletal Muscle (Mouse) Whole Cell Lysate (ab3869) can be used as a positive control in WB. Mouse kidney, lung and skeletal muscle extracts; Rat testis tissue; HeLa cells.</td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th><strong>Form</strong></th>
<th>Liquid</th>
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<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 long term. Avoid freeze / thaw cycle.</td>
</tr>
</tbody>
</table>
| **Storage buffer** | pH: 7.4  
Preservative: 0.02% Sodium azide  
Constituents: 49% PBS, 50% Glycerol, 0.87% Sodium chloride |
PBS without Mg\(^{2+}\) and Ca\(^{2+}\).

**Purity**
Immunogen affinity purified

**Clonality**
Polyclonal

**Isotype**
IgG

### Applications

Our **Abpromise guarantee** covers the use of ab\textbf{196835} 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>
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</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td></td>
<td>1/50 - 1/100.</td>
</tr>
<tr>
<td>ICC/IF</td>
<td></td>
<td>1/50 - 1/200.</td>
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</table>

### Target

**Function**
Reversible hydration of carbon dioxide.

**Tissue specificity**
Muscle specific.

**Sequence similarities**
Belongs to the alpha-carbonic anhydrase family.

**Developmental stage**
At 6 weeks gestation, transcripts accumulate at low levels in the somites and at high levels throughout the notochord. As gestation continues, CA3 becomes abundant in all developing muscle masses and continues at high to moderate levels in the notochord.

**Post-translational modifications**
S-glutathionylated in hepatocytes under oxidative stress.

**Cellular localization**
Cytoplasm.

### Images
Western blot - Anti-Carbonic Anhydrase III antibody (ab196835)

All lanes: Anti-Carbonic Anhydrase III antibody (ab196835) at 1/500 dilution

Lane 1: Mouse kidney extract
Lane 2: Mouse lung extract
Lane 3: Mouse skeletal muscle extract

Predicted band size: 30 kDa

Immunohistochemical analysis of paraffin-embedded Rat testis tissue labeling Carbonic Anhydrase III with ab196835 at 1/200 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Carbonic Anhydrase III antibody (ab196835)
Immunofluorescent analysis of HeLa cells labeling Carbonic Anhydrase III with ab196835 at 1/50 dilution. Blue: DAPI for nuclear staining.

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