# Product datasheet

## Anti-ADRA2B antibody [EPR9623] ab151727

### Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-ADRA2B antibody [EPR9623]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Rabbit monoclonal [EPR9623] to ADRA2B</td>
</tr>
<tr>
<td>Host species</td>
<td>Rabbit</td>
</tr>
</tbody>
</table>
| Tested applications  | **Suitable for:** WB, Flow Cyt, IP  
                        **Unsuitable for:** ICC/IF or IHC-P |
| Species reactivity   | Reacts with: Mouse, Rat, Human  |
| Immunogen            | Synthetic peptide within Human ADRA2B aa 1-100 (N terminal). The exact sequence is proprietary.  
                        Database link: P18089  
                        (Peptide available as ab177733) |
| Positive control     | Human fetal brain, MCF7, HepG2 and 293T cell lysates; 293T cells. |
| General notes        | This product was previously labelled as alpha 2b Adrenergic Receptor  
                        Our RabMab® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents.  
                        This product is a recombinant rabbit monoclonal antibody. |

### Properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage instructions</td>
<td>Shipped at 4°C. Store at -20°C.</td>
</tr>
</tbody>
</table>
| Storage buffer   | Preservative: 0.01% Sodium azide  
                  Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant |
| Purity           | Tissue culture supernatant |
| Clonality        | Monoclonal |
| Clone number     | EPR9623 |
Isotype

IgG

Applications

Our Abpromise guarantee covers the use of ab151727 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>Flow Cyt</td>
<td></td>
<td>1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.</td>
</tr>
<tr>
<td>IP</td>
<td></td>
<td>1/10 - 1/100.</td>
</tr>
</tbody>
</table>

Application notes

Is unsuitable for ICC/IF or IHC-P.

Target

Relevance

Alpha-2-adrenergic receptors are members of the G protein-coupled receptor superfamily. They include 3 highly homologous subtypes: alpha2A, alpha2B, and alpha2C. These receptors have a critical role in regulating neurotransmitter release from sympathetic nerves and from adrenergic neurons in the central nervous system. Alpha 2B adrenergic receptor subtype was observed to associate with eIF-2B, a guanine nucleotide exchange protein that functions in regulation of translation. A polymorphic variant of the alpha2B subtype, which lacks 3 glutamic acids from a glutamic acid repeat element, was identified to have decreased G protein-coupled receptor kinase-mediated phosphorylation and desensitization; this polymorphic form is also associated with reduced basal metabolic rate in obese subjects and may therefore contribute to the pathogenesis of obesity. Alpha 2B adrenergic receptor gene contains no introns in either its coding or untranslated sequences.

Cellular localization

Cell Membrane

Images
All lanes: Anti-ADRA2B antibody [EPR9623] (ab151727) at 1/10000 dilution

Lane 1: Human fetal brain lysate
Lane 2: MCF7 cell lysate
Lane 3: HepG2 cell lysate
Lane 4: 293T cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes: Goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 50 kDa

Flow cytometric analysis of 293T cells labeling ADRA2B with ab151727 at 1/10 dilution (red) compared to a nonspecific control antibody (green).

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