**Human β-3 Adrenergic R/ADRB3 Antibody**  
Monoclonal Mouse IgG2B Clone # 493324  
Catalog Number: MAB9419

### DESCRIPTION

**Species Reactivity** Human  
**Specificity** Stains human β-3 Adrenergic R/ADRB3 transfectants but not irrelevant transfectants in flow cytometry.  
**Source** Monoclonal Mouse IgG2B Clone # 493324  
**Purification** Protein A or G purified from hybridoma culture supernatant  
**Immunogen** Human embryonic kidney cell line HEK293-derived transfected with human β-3 Adrenergic R/ADRB3 Met1-Ser408  
**Accession #** P13945

**Formulation** Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.  
*Small pack size (SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.*

### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Recommended Concentration</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
<td>0.25 µg/10^6 cells</td>
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<tr>
<td>Immunocytochemistry</td>
<td>8-25 µg/mL</td>
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### DATA

**Flow Cytometry**  
Detection of β-3 Adrenergic R/ADRB3 in HEK293 Human Cell Line Transfected with Human β-3 Adrenergic R/ADRB3 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with either (A) human β-3 Adrenergic R/ADRB3 or (B) irrelevant transfecants and eGFP was stained with Mouse Anti-Human β-3 Adrenergic R/ADRB3 Monoclonal Antibody (Catalog # MAB9419) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # MAB0041). View our protocol for Staining Membrane-associated Proteins.

**Immunocytochemistry**  
β-3 Adrenergic R/ADRB3 in Human Adipocytes. β-3 Adrenergic R/ADRB3 was detected in immersion fixed human adipocytes using Mouse Anti-Human β-3 Adrenergic R/ADRB3 Monoclonal Antibody (Catalog # MAB9419) at 15 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

### PREPARATION AND STORAGE

**Reconstitution** Reconstitute at 0.5 mg/mL in sterile PBS.  
**Shipping** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.  
*Small pack size (SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C*  
**Stability & Storage** Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  
- 12 months from date of receipt, -20 to -70 °C as supplied.  
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.  
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.  

### BACKGROUND

ADRB3 belongs to the G protein-coupled receptor 1 family of beta adrenergic receptors. Beta-adrenergic receptors, including ADRB3, mediate the catecholamine-induced activation of adenylate cyclase through the action of G proteins. ADRB3 is involved in the regulation of lipolysis and thermogenesis. A variant of ADRB3 seems to be associated with weight gain (obesity).