

## DESCRIPTION

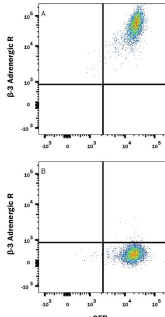
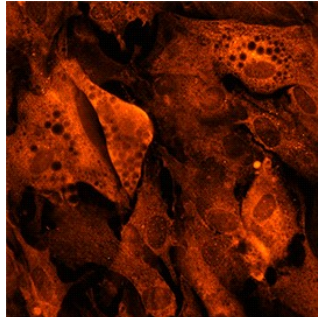
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Stains human $\beta$ -3 Adrenergic R/ADRB3 transfectants but not irrelevant transfectants in flow cytometry.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 493324
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Human embryonic kidney cell line HEK293-derived transfected with human $\beta$ -3 Adrenergic R/ADRB3 Met1-Ser408 Accession # P13945
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m 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 $\mu$ m 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.

	Recommended Concentration	Sample
<b>Flow Cytometry</b>	0.25 $\mu$ g/10 <sup>6</sup> cells	See Below
<b>Immunocytochemistry</b>	8-25 $\mu$ g/mL	See Below

## DATA

Flow Cytometry	Immunocytochemistry
 <p><b>Detection of <math>\beta</math>-3 Adrenergic R/ADRB3 in HEK293 Human Cell Line Transfected with Human <math>\beta</math>-3 Adrenergic R/ADRB3 and eGFP by Flow Cytometry.</b> HEK293 human embryonic kidney cell line transfected with either (A) human <math>\beta</math>-3 Adrenergic R/ADRB3 or (B) irrelevant transfectants and eGFP was stained with Mouse Anti-Human <math>\beta</math>-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 <a href="#">Staining Membrane-associated Proteins</a>.</p>	 <p><b><math>\beta</math>-3 Adrenergic R/ADRB3 in Human Adipocytes.</b> <math>\beta</math>-3 Adrenergic R/ADRB3 was detected in immersion fixed human adipocytes using Mouse Anti-Human <math>\beta</math>-3 Adrenergic R/ADRB3 Monoclonal Antibody (Catalog # MAB9419) at 15 <math>\mu</math>g/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 <a href="#">Fluorescent ICC Staining of Cells on Coverslips</a>.</p>

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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).